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SIEMENS

Contents

Type Overview

Product no.	Product Title	Data sheet	Page
9060944001	Sealing disk Ø 8.6/5.3, size 1 mm, for temperature sensor DS M10x1 mm		39
9060944002	Sealing disk G ¾", for threaded connection R ½"		37
9060944003	Sealing disk G 1", for threaded connection R ¾"		37
9060944004	Sealing disk G 1¼", for threaded connection R 1"	N5324	49
9060944006	Sealing disk G 2", for threaded connection R 1½"		49
9060944022	Sealing disk for DN 25 flange		49
9060944024	Sealing disk for flange DN 40	N5324	49
9060944025	Sealing disk for flange DN 50	N5324	49
9060944026	Sealing disk for flange DN 65	N5324	49
9060944027	Sealing disk for flange DN 80	N5324	49
9060944028	Sealing disk for flange DN 100	N5324	49
9060948	Sealing disc ½" made of copper		49
9060950	Sealing disk Ø 8.6/5.3, size 1.5 mm, for temperature sensor DS M10x1 mm made of copper		39
9060951	Flat seal for WS.5.., for thread G ¾", connection R ½"		35
9060952	Flat seal for WS.5.., for thread G 1", connection R ¾"		35
9956186001	Self-lock seal with sealing wire		35
9956230	Adapter kit for sensor Ø 5.2x45 mm, incl. 2 O-rings		35
ACS26	ACS26 – AMR remote readout software	N2870	53
ACT21	ACT21 - Parameterization software	N2870	53
ACT26	ACT26 – Commissioning and service software		53
ACT46	Walk-by readout software		54
ACT50	ACT50 – Readout and parameterization software	N2887	22
ACT531	Readout software for WTV531-GA5060 level converter	A6V10844345	56
AEW310.2	M-bus pulse adapter	N5383	57
ALG10/20	Mounting kit	N2803	58
ALG80WRI	Mounting kit for WRV81/84 replacement	N2803	58
ALG83WRI	Mounting kit for WRV83 replacement	N2803	58
AMR	AMR wireless system	N2870	51
BOZ4002	Square bolt 4.5 mm with cross pin	N2886	21
BOZ4003	Square bolt 6 mm with cross pin	N2886	21
BOZ4004	Square bolt 12 mm with cross pin	N2886	21
BOZ5005	Sensor accessories set		32
FBCRAA/KS	Backup battery for WTX16..		52
FKA0001	Prism for installation plate	N2886	21
FKA0003	Clamping piece (threaded hoop 17 mm)	N2886	21
FKA0004	Expanding bracket of lamella-type radiator	N2886	21
FKA0008	Clamping piece (threaded hoop 18…30 mm)	N2886	21
FKA0009	Installation plate for remote sensor	N2886	21
FKA0010	Contact screw	N2886	21
FKA0011	Contact screw long	N2886	21
FKA0012	Threaded bushing	N2886	21
FKA0013	Spacer	N2886	21
FKA0017	Mounting plate (P3)	N2886	21
FKA0022	Mounting plate wide	N2886	21
FKK0034	Snap-on panel	N2886	21
FKK0041	Lead seal blue	N2886	21
FKK0044	Wall bracket (P3)	N2886	21
FKK0139	Sealing ring	A6V12128928	26
FKK0173	Guide piece for M77 x 1.5 mm capsule water meter	A6V12128928	26
FKL0012	M-bus cable for WF.54..	A6V10800216	32
FKL0013	Impulse cable for WF.54..	A6V10800216	32
FKM0002	Clamping sleeve special radiator	N2886	21
FKM0018	Fitting R ½" x G ¾"	N5323	32

Product no.	Product Title	Data sheet	Page
FKM0019	Fitting R ¾" x G ¾"	N 5323	32
FKM0020	Fitting R 1" x G ¾"	N 5323	32
FKM0021	Fitting R ¾" x G 1"	N 5323	32
FKM0022	Fitting R 1" x G 1"	N 5323	32
FKM0023	Ball valve Rp ½" with thread	N 5323	32
FKM0024	Ball valve Rp ¾" with thread	N 5323	32
FKM0025	Ball valve Rp 1" with thread	N 5323	32
FKM0026	Ball valve Rp ½" with coupling nut and thread	N 5323	32
FKM0035	T-piece R ½" x G ¼"	N 5323	32
FKM0036	T-piece R ¾" x G ¼"	N 5323	32
FKM0037	T-piece R 1" x G ¼"	N 5323	32
FKM0038	Immersion sleeve G ¼"	N 5323	32
FKM0039	Immersion sleeve G ¼"	N 5323	32
FKM0049	Temperatur sensor sleeve G ¼"	N 5323	32
FKM0050	Temperatur sensor sleeve M10x1 mm	N 5323	32
FKM0051	Immersion sleeve 5.0 mm, M10x1 mm	N 5323	32
FKM0052	Immersion sleeve 5.2 mm, M10x1 mm	N 5323	32
FKM0070	Spacer G ¾", length 80 mm	N 5323	32
FKM0074	Spacer G ¾", length 110 mm	N 5323	32
FKM0075	Spacer G 1", length 130 mm	N 5323	32
FKM0076	Ball valve R ½" with coupling nut G ¾"	N 5323	32
FKM0077	Ball valve R ¾" with coupling nut G ¾"		32
FKM0078	Ball valve Rp 1" with union nut G ¾"		32
FKM0079	Ball valve Rp ¾" with union nut G 1"		32
FKM0080	Ball valve Rp 1" with union nut G 1"		32
FKS0005	Flat gasket ¾"	N 5323	32
FKS0006	Flat gasket 1"	N 5323	32
FKS0034	O-ring for M77 x 1.5 mm capsule water meter	A6V12128928	26
FKT0004	Threaded hoop (pipe up to 17 mm)	N 2886	21
FKT0009	Clamping bracket shortened	N 2886	21
FKT0010	Spacer sleeve	N 2886	21
FKT0011	Welding stud M3 x 12 mm	N 2886	21
FKT0012	Welding stud M3 x 15 mm	N 2886	21
FKT0013	Welding stud M3 x 8 mm	N 2886	21
FKT0014	Threaded hoop (pipe 18…30 mm)	N 2886	21
FKT0015	Clamping bracket (pipes TE 36 mm)	N 2886	21
FKT0016	Clamping bracket (pipes TE 46 mm)	N 2886	21
FKT0017	Installation aid (convector)	N 2886	21
FKT0018	Clamping bracket trapezoidal 35 mm	N 2886	21
FKT0019	Clamping bracket trapezoidal 50 mm	N 2886	21
FKT0020	Clamping bracket trapezoidal 65 mm	N 2886	21
FNM0001	Shank nut M3 x 9.5 mm	N 2886	21
FNM0002	Shank nut M3 x 3 mm	N 2886	21
FNM0003	Shank nut M3 x 6 mm	N 2886	21
FNM0004	Hexagon nut M4	N 2886	21
FNM0005	Self-locking nut with serrated bearing M3	N 2886	21
FNR0003	Cross-slot screw M4 x 30 mm	N 2886	21
FNR0004	Cross-slot screw M4 x 40 mm	N 2886	21
FNR0005	Cross-slot screw M4 x 50 mm	N 2886	21
FNR0006	Cross-slot screw M4 x 70 mm	N 2886	21
FNR0007	Screw B 3.9 x 45 mm	N 2886	21
FNR0008	Self-tapping screw B 2.9 x 13 mm	N 2886	21
FNS0001	Seal	N 5323	32
FNU0001	Dowel 6 mm	N 2886	21

New Product

Product no.	Product Title	Data sheet	Page
FOZ0001	Cable duct white	N2886	21
FSS0007	ERGO universal instant glue 3g	N2886	21
FZ201-009	Torque Screwdriver, Torx Plus™		26
HCAIK0100S1	Kit remote sensor 1.5 m		21
HCAIK0100S2	Kit remote sensor 2.5 m		21
HCAIK0100S5	Kit remote sensor 5 m		21
HCAIP001001	Installation template	N2886	21
HCAPH001001	Programming adapter	N2886	22
HMRIK001-001	Wall bracket	N5323	32
HMXIK001-001	Installation set Rp ½" - ball valve Rp ½" with coupling nut G ¾" and flat gaskets	N5323	32
HMXIK001-002	Installation set Rp ¾"- ball valve Rp ¾" with coupling nut G ¾" and flat gaskets	N5323	32
HMXIK001-003	Installation set Rp 1"- ball valve Rp 1" with coupling nut G ¾" and flat gaskets	N5323	32
HMXIK001-004	Installation set Rp 1"- ball valve Rp 1" with coupling nut G 1" and flat gaskets	N5323	32
HMXIK001-005	Installation set Rp ¾"- ball valve Rp ¾" with coupling nut G 1" and flat gaskets	N5323	32
HMXIK002-001	Installation set R ½" - fitting R ½" with coupling nut G ¾" and flat gaskets	N5323	32
HMXIK002-002	Installation set R ¾" - fitting R ¾" with coupling nut G ¾" and flat gaskets	N5323	32
HMXIK002-003	Installation set R 1" - fitting R 1" with coupling nut G ¾" and flat gaskets	N5323	32
HMXIK002-004	Installation set R 1" - fitting R 1" with coupling nut G 1" and flat gaskets	N5323	32
HMXIK002-005	Installation set R ¾" - fitting R ¾" with coupling nut G 1" and flat gaskets	N5323	32
HMXIK003-001	Adapter set from G ¾" to G 1"	N5323	32
HMXIK003-002	Extension set from G ¾" to G 1"	N5323	32
HMXIK003-003	Extension set from 110 mm G ¾" to 130 mm G ¾"	N5323	32
HMXIK003-004	Extension set from 110 mm G ¾" to 165 mm G ¾"	N5323	32
HMXIK003-005	Extension set from 110 mm G ¾" to 190 mm G 1"	N5323	32
HMXIK004-001	Temperature sensor screwed	N5323	32
M-Bus	M-Bus metering system	N5361	55
NB-IoT-EXT	NB-IoT module		48
RNNPH0010020	USB programming adapter	A6V10455680	52
RNNPH0020010	M-bus adapter plug for WFZ.MBM-USB		52
T23-WA10	Wall adapter, incl. 2 screws and 2 dowels		35
T45-BA-1	Battery set, 1 battery		38
T45-BA-2	Battery set, set of 2 batteries		38
T45-BA-3	Battery set, set of 3 batteries		38
T45-BA-4	Battery set, set of 4 batteries		38
T45-MBUS	M-bus wired module		38
T45-PULSE	Pulse module		38
T45-PULSE-IN	Pulse input set for heat meters		38
T45-RADIO	Radio-module, 868 MHz		38
UH50-A05-00	Ultrasonic heat meter 0.6 m3/h, DS M10x1 mm, G 3/4"	N5324	41
UH50-A21-00	Ultrasonic heat meter 1.5 m3/h, DS M10x1 mm, G 3/4", 110 mm	N5324	41
UH50-A23-00	Ultrasonic heat meter 1.5 m3/h, DS M10x1 mm, G 1", 190 mm	N5324	41
UH50-A36-00	Ultrasonic heat meter 2.5 m3/h, DS M10x1 mm, G 1", 130 mm	N5324	41
UH50-A38-00	Ultrasonic heat meter 2.5 m3/h, DS M10x1 mm, G 1", 190 mm	N5324	41
UH50-A45-00	Ultrasonic heat meter 3.5 m3/h, DS M10x1 mm, G 11/4"	N5324	43
UH50-A50-00	Ultrasonic heat meter 6 m3/h, DS M10x1 mm, G 11/4"	N5324	43
UH50-A61-00	Ultrasonic heat meter 10 m3/h, Ø 6 mm L = 100 mm, DN40	N5324	45
UH50-A65-00	Ultrasonic heat meter 15 m3/h, Ø 6 mm L = 100 mm, DN50	N5324	46
UH50-A70-00	Ultrasonic heat meter 25 m3/h, Ø 6 mm L = 100 mm, DN65	N5324	46
UH50-A74-00	Ultrasonic heat meter 40 m3/h, Ø 6 mm L = 150 mm, DN80	N5324	47
UH50-A83-00	Ultrasonic heat meter 60 m3/h, Ø 6 mm L = 150 mm, DN100	N5324	47
UH50-C05-00	Ultrasonic heat and heating/cooling meter 0.6 m3/h, DS M10x1 mm, G 3/4"	N5324	41
UH50-C06-00	Ultrasonic heating/cooling energy meter 0.6 m3/h, DS M10x1 mm, G 3/4", PN 25	N5324	41
UH50-C21-00	Ultrasonic heat and heating/cooling meter 1.5 m3/h, DS M10x1 mm, G 3/4"	N5324	41
UH50-C22-00	Ultrasonic heating/cooling energy meter 1.5 m3/h, DS M10x1 mm, G 3/4", PN25	N5324	41

New Product

Product no.	Product Title	Data sheet	Page
UH50-C25-00	Ultrasonic heating/cooling energy meter 1.5 m3/h, DS M10x1 mm, G 1", PN25	N5324	41
UH50-C36-00	Ultrasonic heat and heating/cooling meter 2.5 m3/h, DS M10x1 mm, G 1"	N5324	41
UH50-C37-00	Ultrasonic heating/cooling energy meter 2.5 m3/h, DS M10x1 mm, G 1", PN25	N5324	41
UH50-C40-00	Ultrasonic heating/cooling energy meter 2.5 m3/h, DS M10x1 mm, G 1", PN25	N5324	41
UH50-C45-00	Ultrasonic heat and heating/cooling meter 3.5 m3/h, DS M10x1 mm, G 11/4"	N5324	43
UH50-C47-00	Ultrasonic heating/cooling energy meter 3.5 m3/h, DS M10x1 mm, G 1 ¼ ", PN25	N5324	43
UH50-C50-00	Ultrasonic heat and heating/cooling meter 6 m3/h, DS M10x1 mm, G 11/4"	N5324	43
UH50-C52-00	Ultrasonic heating/cooling energy meter 6.0 m3/h, DN25", PN25	N5324	43
UH50-C60-00	Ultrasonic heating/cooling energy meter 10.0 m3/h, G 2", PN16	N5324	45
UH50-C61-00	Ultrasonic heat and heating/cooling meter 10 m3/h, Ø 6 mm L = 100 mm, DN40	N5324	45
UH50-C65-00	Ultrasonic heat and heating/cooling meter 15 m3/h, Ø 6 mm L = 100 mm, DN50	N5324	46
UH50-C70-00	Ultrasonic heat and heating/cooling meter 25 m3/h, Ø 6 mm L = 100 mm, DN65	N5324	46
UH50-C74-00	Ultrasonic heat and heating/cooling meter 40 m3/h, Ø 6 mm L = 150 mm, DN80	N5324	47
UH50-C83-00	Ultrasonic heat and heating/cooling meter 60 m3/h, Ø 6 mm L = 150 mm, DN100	N5324	47
walk-by	Walk-by radio system		54
WFK240.D080	Mechanical single-jet cold water meter with module slot, Q3 = 2.5 m³/h, L = 80 mm, G ¾ "	A6V12048975	24
WFK240.D110	Mechanical single-jet cold water meter with module slot, Q3 = 2.5 m³/h, L = 110 mm, G ¾ "	A6V12048975	24
WFK240.E130	Mechanical single-jet cold water meter with module slot, Q3 = 4 m³/h, L = 130 mm, G 1 "	A6V12048975	24
WFK30.D080	Mechanical water meter single-jet, with module slot, 2.5 m³/h, 80 mm, G ¾ ", cold	N5326	23
WFK30.D110	Mechanical water meter single-jet, with module slot, 2.5 m³/h, 110 mm, G ¾ ", cold	N5326	23
WFK30.E130	Mechanical single-jet water meters (module compatible)	N5326	23
WFK636.D080	Electronic impeller type cold water meter Q3 = 2.5 m3/h, wall-mounted, mounting length 80 mm, connecting thread 3/4", M-bus radio communication, 10-year battery, up to 30 °C	A6V12128928	27
WFK636.D110	Electronic impeller type cold water meter Q3 = 2.5 m3/h, wall-mounted, mounting length 110 mm, connecting thread 3/4", M-bus radio communication, 10-year battery, up to 30 °C	A6V12128928	27
WFK636.E130	Electronic impeller type cold water meter Q3 = 4 m3/h, wall-mounted, mounting length 130 mm, connecting thread 1", M-bus radio communication, 10-year battery, up to 30 °C	A6V12128928	27
WFM501-E000H0	Impeller type heat meter, nominal flow rate 0.6 m3/h	N5323	30
WFM502-E000H0	Impeller type heat meter, nominal flow rate 1.5 m3/h	N5323	30
WFM503-J000H0	Impeller type heat meter, nominal flow rate 2.5 m3/h	N5323	30
WFM541-G000H0	Impeller type heat meter 0.6 m3/h, with m-bus communication and 2 pulse inputs, mounting length 110 mm	A6V10800216	30
WFM542-C000H0	Impeller type heat meter 1.5 m3/h, with m-bus communication and 2 pulse inputs, mounting length 80 mm	A6V10800216	30
WFM542-G000H0	Impeller type heat meter 1.5 m3/h, with m-bus communication and 2 pulse inputs, mounting length 110 mm	A6V10800216	30
WFM543-L000H0	Impeller type heat meter 2.5 m3/h, with m-bus communication and 2 pulse inputs, mounting length 130 mm	A6V10800216	30
WFM681-G000H0	WFM681-G000H0 RF heat meter set	A6V11259309	31
WFM682-G000H0	WFM682-G000H0 RF heat meter set	A6V11259309	31
WFM683-L000H0	WFM683-L000H0 RF heat meter set	A6V11259309	31
WFW240.D080	Mechanical single-jet hot water meter with module slot, Q3 = 2.5 m³/h, L = 80 mm, G ¾ "	A6V12048975	24
WFW240.D110	Mechanical single-jet hot water meter with module slot, Q3 = 2.5 m³/h, L = 110 mm, G ¾ "	A6V12048975	24
WFW240.E130	Mechanical single-jet hot water meter with module slot, Q3 = 4 m³/h, L = 130 mm, G 1 "	A6V12048975	24
WFW30.D080	Mechanical water meter single-jet, with module slot, 2.5 m³/h, 80 mm, G ¾ ", hot	N5326	23
WFW30.D110	Mechanical water meter single-jet, with module slot, 2.5 m³/h, 110 mm, G ¾ ", hot	N5326	23
WFW30.E130	Mechanical single-jet water meters (module compatible)	N5326	23

New Product

Product no.	Product Title	Data sheet	Page
WFW636.D080	Electronic impeller type hot water meter Q3 = 2.5 m3/h, wall-mounted, mounting length 80 mm, connecting thread 3/4", M-bus radio communication, 10-year battery, up to 90 °C	A6V12128928	27
WFW636.D110	Electronic impeller type hot water meter Q3 = 2.5 m3/h, wall-mounted, mounting length 110 mm, connecting thread 3/4", M-bus radio communication, 10-year battery, up to 90 °C	A6V12128928	27
WFW636.E130	Electronic impeller type hot water meter Q3 = 4 m3/h, wall-mounted, mounting length 130 mm, connecting thread 1", M-bus radio communication, 10-year battery, up to 90 °C	A6V12128928	27
WFZ.IRDA-USB	Infrared read head (with USB interface)	N2886	22
WFZ.MBM-USB	M-bus programming adapter (USB)		33
WFZ.P	Self-lock seal with sealing wire		26
WFZ.PS	Triggering tool for radio telegrams		26
WFZ.R110	Spacer G ¾", length 110mm		26
WFZ.R130	Spacer G 1", length 130 mm		26
WFZ.R2	WFZ.R2 Mounting kit	 	26
WFZ.R2-1	WFZ.R2-1 Mounting kit		26
WFZ.R80	Spacer G ¾", length 80 mm		26
WFZ.W	Mounting kit for washstand water meter		26
WFZ.Z	Mounting kit for tap water meter		26
WFZ311	M-bus add-on module for water meters WF.30.. / WM.10..	A6V11991477	57
WFZ43	Pulse add-on module with reed contact and namur circuit for WF.240.. water meters	N5302	26
WFZ44	Pulse add-on module with reed contact for WF.240.. water meters	N5302	26
WFZ51	M-bus add-on module for WFx5.. meters	N5323	57
WFZ661	Add-on radio module WFZ661 for water meters WF.30.. / WM.10..	A6V10986918	52
WFZ662	Radio module with integrated antenna for WFx5.. meters	N5323	53
WHE502-D10	Electronic heat cost allocator with watchdog timer, Double sensor, Summer switch-off: 06/01 – 08/31, due date 12/31	A6V10786229	19
WHE542-D100S	Electronic heat cost allocator with watchdog timer, Double sensor, Summer switch-off: 06/01 – 08/31, due date 12/31, meter reading by walk-by: Annualy, S-mode	A6V10786229	20
WHE542-D291S	Electronic heat cost allocator with watchdog timer, Double sensor, Summer switch-off: 06/01 – 09/30, due date 09/30, meter reading by walk-by: Monthly, S-mode	A6V10786229	20
WHE632-D292C	Electronic heat cost allocator with watchdog timer, Double sensor, Summer switch-off: 06/01 - 09/30, due date 09/30, C-mode	A6V10786229	20
WME.EINPUTZ1	Mounting aid		26
WME.G20/OV/H	Single-pipe connecting piece		26
WME.L15/OV/H	Single-pipe connecting piece (EAT)		26
WME.L18/OV/H	Single-pipe connecting piece (EAT)		26
WME.L22/OV/H	Single-pipe connecting piece (EAT)		26
WME.PRODICHT	Profiled seal		26
WME.VRING	EAT cover		26
WMK10.D	Mechanical capsule cold water meter Q3 = 2.5 m3/h	N5327	25
WMK636.DAL00	Electronic multi-jet cold water meter for A34 measuring capsule Q3 = 2.5 m3 / h, connection thread M77 x 1.5 mm, M-bus radio communication, 10-year battery, up to 30 ° C	A6V12128928	28
WMK636.DIS00	Electronic multi-jet cold water meter for IST measuring capsule Q3 = 2.5 m3 / h, connection thread G2", M-bus radio communication, 10-year battery, up to 30 ° C	A6V12128928	28
WMK636.DTE00	Electronic multi-jet cold water meter for TE1 measuring capsule Q3 = 2.5 m3 / h, connection thread M62 x 2 mm, M-bus radio communication, 10-year battery, up to 30 ° C	A6V12128928	28
WMW10.D	Mechanical capsule hot water meter Q3 = 2.5 m3/h	N5327	25
WMW636.DAL00	Electronic multi-jet hot water meter for A34 measuring capsule Q3 = 2.5 m3 / h, connection thread M77 x 1.5 mm, M-bus radio communication, 10-year battery, up to 90 ° C	A6V12128928	28

New Product

Product no.	Product Title	Data sheet	Page
WMW636.DIS00	Electronic multi-jet hot water meter for IST measuring capsule Q3 = 2.5 m3 / h, connection thread G2″, M-bus radio communication, 10-year battery, up to 90 ° C	A6V12128928	28
WMW636.DTE00	Electronic multi-jet hot water meter for TE1 measuring capsule Q3 = 2.5 m3 / h, connection thread M62 x 2 mm, M-bus radio communication, 10-year battery, up to 90 ° C	A6V12128928	28
WMXI.KBL1-001	Round cover with thrust tube in white	A6V12128928	26
WMXI.KBL1-002	Inner extensions for thrust tube (5 pcs./PU) in white	A6V12128928	26
WMXI.KBL1-003	Outer extensions for thrust tube (5 pcs./PU) in white	A6V12128928	26
WMXI.KCR1-001	Round cover with thrust tube in chrome look	A6V12128928	26
WMXI.KCR1-002	Inner extensions for thrust tube (5 pcs./PU) in chrome look	A6V12128928	26
WMXI.KCR1-003	Outer extensions for thrust tube (5 pcs./PU) in chrome look	A6V12128928	26
WMZ.K5	Mounting key		26
WSM506-0E	Ultrasonic heat meter 0.6 m³/h, mounting length 110 mm, connecting thread G 3/4",sensor Ø5.2x45 mm, battery life 11 years	N5372	34
WSM506-BE	Ultrasonic heat meter 0.6 m³/h, mounting length 110 mm, connecting thread G 3/4",sensor Ø5.2x45 mm, M-bus communication, battery life 11 years	N5372	34
WSM506-FE	Ultrasonic heat meter 0.6 m³/h, mounting length 110 mm, connecting thread G 3/4",sensor Ø5.2x45 mm, M-bus radio communication, battery life 11 years	N5372	34
WSM515-0E	Ultrasonic heat meter 1.5 m³/h, mounting length 110 mm, connecting thread G 3/4", sensor Ø5.2x45 mm, battery life 11years	N5372	34
WSM515-BE	Ultrasonic heat meter 1.5 m³/h, mounting length 110 mm, connecting thread G 3/4",sensor Ø5.2x45 mm, M-bus communication, battery life 11 years	N5372	34
WSM515-FE	Ultrasonic heat meter 1.5 m³/h, mounting length 110 mm, connecting thread G 3/4", sensor Ø5.2x45mm, M-bus radio communication, battery life 11 years	N5372	34
WSM525-0E	Ultrasonic heat meter 2.5 m³/h, mounting length 130 mm, connecting thread G 1", sensor Ø5.2x45 mm, battery life 11years	N5372	34
WSM525-BE	Ultrasonic heat meter 2.5 m³/h, mounting length 130 mm, connecting thread G 1",sensor Ø5.2x45 mm, M-bus communication, battery life 11 years	N5372	34
WSM525-FE	Ultrasonic heat meter 2.5 m³/h, mounting length 130 mm, connecting thread G 1", sensor Ø5.2x45mm, M-bus radio communication, battery life 11 years	N5372	34
WSM606-BE	Ultrasonic heat meter 0.6 m³/h, mounting length 110 mm, connecting thread G 3/4", sensor Ø5.2x45 mm, M-bus communication, battery life 11 years	N5372	36
WSM615-BE	Ultrasonic heat meter 1.5 m³/h, mounting length 110 mm, connecting thread G 3/4",sensor Ø5.2x45 mm, M-bus communication, battery life 11 years	N5372	36
WSM625-BE	Ultrasonic heat meter 2.5 m³/h, mounting length 130 mm, connecting thread G 1",sensor Ø5.2x45 mm, M-bus communication, battery life 11 years	N5372	36
WSM805-FBBAE3A	Ultrasonic heat meter 0,6 m³/h, mounting length 110 mm, connecting thread G ¾ ", sensor M10x1 mm, 27.5 mm, M-bus communication, 2 pulse inputs, 6 year battery	A6V11905989	38
WSM805-FHBAE3A	Ultrasonic heat meter 0,6 m³/h, mounting length 110 mm, connecting thread G ¾ ", sensor Ø5.2x45 mm, M-bus communication, 2 pulse inputs, 6 year battery	A6V11905989	38
WSM821-FBBAE3A	Ultrasonic heat meter 1.5 m³/h, mounting length 110 mm, connecting thread 3/4", sensor M10 x 1 mm, 27,5 mm, M-bus communication, 2 pulse inputs, 6 year battery	A6V11905989	38
WSM821-FHBAE3A	Ultrasonic heat meter 1,5 m³/h, mounting length 110 mm, connecting thread 3/4", sensor Ø5,2mm, 45 mm, M-bus communication, 2 pulse inputs, 6 year battery	A6V11905989	38
WSM836-FBBAE3A	Ultrasonic heat meter 2.5 m³/h, mounting length 130 mm, connecting thread 1", sensor M10 x 1 mm, 27,5 mm, M-bus communication, 2 pulse inputs, 6 year battery	A6V11905989	38
WSM836-FHBAE3A	Ultrasonic heat meter 2.5 m³/h, mounting length 130 mm, connecting thread 1", sensor Ø5,2mm, 45 mm, M-bus communication, 2 pulse inputs, 6 year battery	A6V11905989	38
WSN506-BE	Ultrasonic heating/cooling meter 0.6 m³/h, mounting length 110 mm, sensor Ø5.2x45 mm, connecting thread G ¾", M-bus communication, battery life 11 years	N5372	34
WSN506-FE	Ultrasonic heating/cooling meter 0.6 m³/h, mounting length 110 mm, sensor Ø5.2x45 mm, connecting thread G ¾", M-bus radio communication, battery life 11 years	N5372	34
WSN515-BE	Ultrasonic heating/cooling meter 1.5 m³/h, mounting length 110 mm, sensor Ø5.2x45mm, connecting thread G ¾", M-bus communication, battery life 11 years	N5372	34

Product no.	Product Title	Data sheet	Page
WSN515-FE	Ultrasonic heating/cooling meter 1.5 m³/h, mounting length 110 mm, sensor Ø5.2x45mm, connecting thread G ¾", M-bus radio communication, battery life 11 years	N5372	34
WSN525-BE	Ultrasonic heating/cooling meter 2.5 m³/h, mounting length 130 mm, sensor Ø5.2x45mm, connecting thread G 1", M-bus communication, battery life 11 years	N5372	34
WSN525-FE	Ultrasonic heating/cooling meter 2.5 m³/h, mounting length 130 mm, sensor Ø5.2x45mm, connecting thread G 1", M-bus radio communication, battery life 11 years	N5372	34
WSN606-BE	Ultrasonic heat/cooling energy meter, 0.6 m³/h, mounting length 110 mm, connecting thread G 3/4", sensor Ø5.2x45 mm, M-buscommunication, battery life 11 years	N5372	36
WSN615-BE	Ultrasonic heat/cooling energy meter, 1.5 m³/h, mounting length 110 mm, connecting thread G 3/4", sensor Ø5.2x45 mm, M-bus communication,battery life 11 years	N5372	36
WSN625-BE	Ultrasonic heat/cooling energy meter, 2.5 m³/h, mounting length 130 mm, connecting thread G 1", sensor Ø5.2x45 mm, M-bus communication,battery life 11 years	N5372	36
WSN805-FBBBF3A	Ultrasonic heat/cooling energy meter 0.6 m3/h, mounting length 110 mm, connecting thread 3/4", sensor M10 x 1 mm, 27,5 mm, m-bus communication, 2 pulse inputs, 11 year battery	A6V11905989	38
WSN821-FBBBF3A	Ultrasonic heat/cooling energy meter 1.5 m3/h, mounting length 110 mm, connecting thread 3/4", sensor M10 x 1 mm, 27,5 mm, m-bus communication, 2 pulse inputs, 11 year battery	A6V11905989	38
WSN836-FBBBF3A	Ultrasonic heat/cooling energy meter 2.5 m3/h, mounting length 130 mm, connecting thread 1", sensor M10 x 1 mm, 27,5 mm, m-bus communication, 2 pulse inputs, 11 year battery	A6V11905989	38
WTT662-BA1100	Network node	A6V11731517	51
WTT665-BD5000	Mobile data collector		54
WTT667-AE0020	M-bus RF gateway WTT667-AE0020	A6V11918443	52
WTV531-GA5060	Level converter	A6V10844290	56
WTV676-HB6035	M-bus web server	A6V11157961	55
WTX631-GA0090	M-bus Level Converter/Repeater 250	A6V11742346	56
WTX660-E05060	RF converter	A6V11135903	53
WTZ.BAT	Battery for WTT..		52
WZM-E1	Mounting kit G1", for threaded connection R ¾"		35
WZM-E2.1	Mounting kit G2 × R 1½"	N5324	48
WZM-E34	Installation kit G ¾", for threaded connection R ½"		35
WZM-E54	Installation kit G1 1/4 x R1"	N5324	48
WZM-F190	Spacer for heat meter DN20, length 190 mm, PN16, incl. 2 flat gaskets		49
WZM-F260	Spacer for heat meter DN25, length 260 mm, PN16, incl. 2 flat gaskets		49
WZM-F270	Spacer DN 50, length 270 mm, PN16, incl. 2 flat gaskets	N5324	49
WZM-F300	Spacer DN 40, length 300 mm, PN16, incl. 2 flat gaskets	N5324	49
WZM-F300.65	Spacer DN 65, length 300 mm, PN16, incl. 2 flat gaskets	N5324	49
WZM-F300.80	Spacer DN 80, length 300 mm, PN16, incl. 2 flat gaskets	N5324	49
WZM-F360.100-25	Spacer DN 100, length 360 mm, PN25, incl. 2 flat gaskets	N5324	49
WZM-G110	Spacer G ¾", length 110 mm, incl. 2 flat gaskets		35
WZM-G130	Spacer G 1", length 130 mm, incl. 2 flat gaskets		35
WZM-G190	Spacer G 1", length 190 mm, incl. 2 flat gaskets	N5324	49
WZM-G260	Spacer G 1¼", length 260 mm, incl. 2 flat gaskets	N5324	49
WZM-G300.1	Spacer G 2", length 300 mm, incl. 2 gaskets		49
WZM-V110	Adapter set from G ¾" to 1", incl. gaskets		26
WZM-V130	Extension set from 110 mm G ¾" to 130 mm G ¾", incl. gaskets		26
WZM-V130	Adapter from 110 mm G ¾" to 130 mm G ¾", incl. gaskets		35
WZM-V130.G1	Adapter from 110 mm G ¾B" to 130 mm G 1B", incl. 4 gaskets		35
WZM-V165	Extension set from 110 mm G ¾" to 165 mm G ¾", incl. gaskets		26
WZM-V190	Extension set from 110 mm G ¾" to 190 mm G 1", incl. gaskets		26
WZM-V190	Adapter from 110 mm G ¾B" to 190 mm G 1B", incl. gaskets		35
WZM-VE165	Adapter from 110 mm G ¾B" to 165 mm G ¾B", incl. 1 gasket		35

New Product

Product no.	Product Title	Data sheet	Page
WZR-OP-USB	Optical read head with USB interface for PC		35
WZT-A100	Mounting set G ½" with threaded hole G ¼" for direct mounting of long sensors	N5324	49
WZT-A12	Adapter M10x1 mm x G 1/2 B" for sensor DS M10x1 mm / d=5.2 x 45 mm		35
WZT-A34	Adapter G ¾ B" with threaded hole to install sensor DS M10x1 mm, incl. gasket G ¾"		35
WZT-A38	Adapter G 3/8 B" with threaded hole to install sensor DS M10x1 mm, incl. gasket G 3/8"		35
WZT-FA	Mounting set for sensor Ø 5.2x45 mm		39
WZT-FA	Adapter set brass for sensor 5.2 x 45 mm		37
WZT-G10	Welding sleeve with threaded hole for temperature sensor DS M10×1 mm		35
WZT-G12	Welding sleeve G ½", 45° to the pipe axis, with threaded hole G ½"		49
WZT-GLG	Welding sleeve G ½", 90° to the pipe axis, with threaded hole G ½"		49
WZT-K1	Ball valve Rp 1" for sensor DS M10x1 mm, length 27.5 mm or Ø 5.2x45 mm		35
WZT-K1-1	Ball valve R 1" with union nut G 1"		35
WZT-K112	Ball valve Rp 1½ for sensors 38 mm M10x1		49
WZT-K12	Ball valve Rp ½" for sensor DS M10x1 mm, length 27.5 mm or Ø 5.2x45 mm		35
WZT-K12-34	Ball valve R ½" with union nut G ¾"		35
WZT-K2-2	Ball valve Rp 2" with union nut G 2"		49
WZT-K34	Ball valve Rp ¾" for sensor DS M10x1 mm, length = 27.5 mm or Ø 5.2x45 mm		35
WZT-K34-1	Ball valve R ¾" with union nut G 1"		35
WZT-K34-34	Ball valve R ¾" with union nut G ¾"		35
WZT-K54	Ball valve Rp 1¼ for sensors 38 mm M10x1		49
WZT-K54-54	Ball valve Rp 1¼" with union nut G 1¼"		49
WZT-KA	Adapter for ball valve to install sensor DS M10x1 mm, length 38 mm		49
WZT-M35	Protection pocket G ½ B", length 35 mm, made of brass, for temperature sensor Ø 5.2x45 mm		35
WZT-M50	Protection pocket G ½B", brass, Ø 5.2x50 mm, for temperature sensor Ø 5.2x45 mm		35
WZT-MS110	Mounting set 110 mm		35
WZT-MS130	Mounting set 130 mm		35
WZT-S100	Protection pocket G ½ B", stainless steel, with threaded hole G ¼", L = 100 mm	N5324	49
WZT-S150	Protection pocket G ½ B", stainless steel, with threaded hole G ¼", L = 150 mm	N5324	49
WZT-S43V	Pocket G½"B, stainless steel, 5.2 × 37 mm, with seal		35
WZU-485E-BAC	BACnet module RS-485 (MS/TP)		48
WZU-485E-MOD	Moduł Modbus RTU RS485		48
WZU5-1020	Pair of temperature sensors Pt500, PL Ø 6x100 mm, cable length 2 m	N5324	48
WZU5-1050	Pair of temperature sensors Pt500, PL Ø 6x100 mm, cable length 5 m	N5324	48
WZU5-1520	Pair of temperature sensors Pt500, PL Ø 6x150 mm, cable length 2 m	N5324	48
WZU5-1550	Pair of temperature sensors Pt500, PL Ø 6x150 mm, cable length 5 m	N5324	48
WZU5-2815	Pair of temperature sensors Pt500, DS M10x1 mm, sensor length 27.5 mm, cable length 1.5 m	N5324	39
WZU5-2825	Pair of temperature sensors Pt500, DS M10x1 mm, sensor length 27.5 mm, cable length 2.5 m	N5324	39
WZU5-3815	Pair of temperature sensors Pt500, DS M10x1 mm, sensor length 38 mm, cable length 1.5 m	N5324	39
WZU5-3825	Pair of temperature sensors Pt500, DS M10x1 mm, sensor length 38 mm, cable length 2.5 m	N5324	39
WZU5-4515	Pair of temperature sensors Pt500, PS Ø5.2x45 mm, cable length 1.5 m	N5324	39
WZU5-4550	Pair of temperature sensors Pt500, PS Ø 5.2x45 mm, cable length 5 m	N5324	39
WZU-AC110/230-15	Power supply AC 110/230 V for UH50..	N5324	48
WZU-AC110/230-50	Power supply AC 110/230 V for UH50..	N5324	48
WZU-ACDC24-50	Power pack AC/DC 24 V	N5324	48
WZU-AM	Analog module	N5324	48
WZU-ANT-MAG	Antenna with magnetic foot		48
WZU-ANT-Wall	Wall mounted antenna		48
WZU-BA+GUM	Standard battery (2x AA) for 6 years, complete with fastener	N5324	48
WZU-BDS	Universal battery (D-cell), life 6 and 16 years respectively	N5324	48

New Product

Product no.	Product Title	Data sheet	Page
WZU-GPRS	GPRS module with external antenna (magnetic attachment) and power pack 110…230 V	N5324	48
WZU-GPRS-ANT	GPRS module with external antenna (for screw mounting) and power pack 110…230 V	N5324	48
WZU-LR	LoRaWAN communication module	N5324	48
WZU-LR-EXT	LoRaWAN comm. module, ext. antenna	N5324	48
WZU-MB G4	M-bus module for heat and heat/cooling energy meters, generation 4	N5324	48
WZU-MH	Mounting plate for top hat rail	N5324	39
WZU-MI	M-bus module with 2 pulse inputs for heat and heat/cooling energy meters, generation 4	N5324	48
WZU-NE24	Power pack for WZU-AM, WZU-485E-BAC and WZU-485E-MOD	N5324	48
WZU-P2	Pulse module with 2 channels	N5324	48
WZU-WA	Mounting plate for wall mounting		39
WZU-WH	Plate for wall mounting		39
WZX-UA-PEU-MINI	UltraAssist Profi, first license, CD with USB mini-dongle		35
WZX-UA-PFU-MINI	UltraAssist Profi, second license, USB mini-dongle		35

New Product

Meters

Heat cost allocators WHE5..

		2 sensors	Communication	Summer switch off	Due date
	WHE502-D10	■	none	■ [1]	31.12
	WHE542-D100S	■	AMR & walk-by	■ [1]	31.12
	WHE542-D291S	■	AMR & walk-by	■ [2]	30.09
	WHE632-D292C	■	AMR & walk-by	■ [2]	30.09

[1] Beginning of summer: 01.06 – End of summer: 31.08
[2] Beginning of summer: 01.06 – End of summer: 30.09

Mechanical impeller type hot and cold water meters

		Type of meter	Q3	Mounting length	Communication	Connection
	WFK30.D080	Cold water up to 30° C	2.5 m³/h	80 mm	walk-by or AMR or M-Bus [1]	G 3/4"
	WFK30.D110	Cold water up to 30° C	2.5 m³/h	110 mm	walk-by or AMR or M-Bus [1]	G 3/4"
	WFK30.E130	Cold water up to 30 °C	4 m³/h	130 mm	walk-by or AMR or M-Bus [1]	G 1"
	WFW30.D080	Hot water up to 90° C	2.5 m³/h	80 mm	walk-by or AMR or M-Bus [1]	G 3/4"
	WFW30.D110	Hot water up to 90° C	2.5 m³/h	110 mm	walk-by or AMR or M-Bus [1]	G 3/4"
	WFW30.E130	Hot water up to 90 °C	4 m³/h	130 mm	walk-by or AMR or M-Bus [1]	G 1"

[1] With add-on module: AMR + walk-by (WFZ661), M-Bus (WFZ311)

Mechanical impeller type hot and cold water meters

		Type of meter	Q3	Mounting length	Communication	Connection
	WFK240.D080	Cold water up to 50° C	2.5 m³/h	80 mm	Reed contact or Namur [2]	G 3/4"
	WFK240.D110	Cold water up to 50° C	2.5 m³/h	110 mm	Reed contact or Namur [2]	G 3/4"
	WFK240.E130	Cold water up to 50° C	4.0 m³/h	130 mm	Reed contact or Namur [2]	G 1"
	WFW240.D080	Hot water from 30 to 90° C	2.5 m³/h	80 mm	Reed contact or Namur [2]	G 3/4"
	WFW240.D110	Hot water from 30 to 90° C	2.5 m³/h	110 mm	Reed contact or Namur [2]	G 3/4"
	WFW240.E130	Hot water from 30 to 90° C	4.0 m³/h	130 mm	Reed contact or Namur [2]	G 1"

[2] With impulse module: Reed contact (WFZ44), reed contact with Namur (WFZ43)

Electronic impeller type hot and cold water meters

		Type of meter	Q3	Mounting length	Communication	Connection
	WFK636.D080	Cold water meter up to 30° C	2.5 m³/h	80 mm	AMR + walk-by	G 3/4"
	WFK636.D110	Cold water meter up to 30° C	2.5 m³/h	110 mm	AMR + walk-by	G 3/4"
	WFK636.E130	Cold water meter up to 30° C	4.0 m³/h	130 mm	AMR + walk-by	G 1"
	WFW636.D080	Hot water meter up to 90° C	2.5 m³/h	80 mm	AMR + walk-by	G 3/4"
	WFW636.D110	Hot water meter up to 90° C	2.5 m³/h	110 mm	AMR + walk-by	G 3/4"
	WFW636.E130	Hot water meter up to 90° C	4.0 m³/h	130 mm	AMR + walk-by	G 1"

Impeller type meters

		Type of meter	Nominal flow rate	Communica-tion	Power supply	Type	Connec-tion	Mounting length
	WFM501-E000H0	Heat	0.6 m³/h	walk-by or AMR or M-Bus ³)	Battery	Impeller meter	G 3/4"	110 mm
	WFM541-G000H0	Heat	0.6 m³/h	M-Bus	Battery	Impeller meter	G 3/4"	110 mm
	WFM681-G000H0	Heat	0.6 m³/h	AMR + walk-by	Battery	Impeller meter	G 3/4"	110 mm
	WFM502-E000H0	Heat	1.5 m³/h	walk-by or AMR or M-Bus ³)	Battery	Impeller meter	G 3/4"	110 mm
	WFM542-C000H0	Heat	1.5 m³/h	M-Bus	Battery	Impeller meter	G 3/4"	80 mm
	WFM542-G000H0	Heat	1.5 m³/h	M-Bus	Battery	Impeller meter	G 3/4"	110 mm
	WFM682-G000H0	Heat	1.5 m³/h	AMR + walk-by	Battery	Impeller meter	G 3/4"	110 mm
	WFM503-J000H0	Heat	2.5 m³/h	walk-by or AMR or M-Bus ³)	Battery	Impeller meter	G 1"	130 mm
	WFM543-L000H0	Heat	2.5 m³/h	M-Bus	Battery	Impeller meter	G 1"	130 mm
	WFM683-L000H0	Heat	2.5 m³/h	AMR + walk-by	Battery	Impeller meter	G 1"	130 mm

³) With add-on module: AMR & walk-by (WFZ662), M-Bus (WFZ51)

Ultrasonic meters

		Type of meter	Nominal flow rate	Communication	Power supply	Type	Connection	Mounting length
	WSM506-0E	Heat	0.6 m³/h	none	Battery [1]	Ultrasonic meter	G 3/4"	110 mm
	WSM506-BE	Heat	0.6 m³/h	M-Bus	Battery [1]	Ultrasonic meter	G 3/4"	110 mm
	WSM506-FE	Heat	0.6 m³/h	M-Bus Funk	Battery [1]	Ultrasonic meter	G 3/4"	110 mm
	WSM606-BE	Heat	0.6 m³/h	M-Bus	Battery [1]	Ultrasonic meter	G 3/4"	110 mm
	WSN506-BE	Combi	0.6 m³/h	M-Bus	Battery [1]	Ultrasonic meter	G 3/4"	110 mm
	WSN506-FE	Combi	0.6 m³/h	M-Bus Funk	Battery [1]	Ultrasonic meter	G 3/4"	110 mm
	WSN606-BE	Combi	0.6 m³/h	M-Bus	Battery [1]	Ultrasonic meter	G 3/4"	110 mm
	WSM515-0E	Heat	1.5 m³/h	none	Battery [1]	Ultrasonic meter	G 3/4"	110 mm
	WSM515-BE	Heat	1.5 m³/h	M-Bus	Battery [1]	Ultrasonic meter	G 3/4"	110 mm
	WSM515-FE	Heat	1.5 m³/h	M-Bus Funk	Battery [1]	Ultrasonic meter	G 3/4"	110 mm
	WSM615-BE	Heat	1.5 m³/h	M-Bus	Battery [1]	Ultrasonic meter	G 3/4"	110 mm
	WSN515-BE	Combi	1.5 m³/h	M-Bus	Battery [1]	Ultrasonic meter	G 3/4"	110 mm
	WSN515-FE	Combi	1.5 m³/h	M-Bus Funk	Battery [1]	Ultrasonic meter	G 3/4"	110 mm
	WSN615-BE	Combi	1.5 m³/h	M-Bus	Battery [1]	Ultrasonic meter	G 3/4"	110 mm
	WSM525-0E	Heat	2.5 m³/h	none	Battery [1]	Ultrasonic meter	G 1"	130 mm
	WSM525-BE	Heat	2.5 m³/h	M-Bus	Battery [1]	Ultrasonic meter	G 1"	130 mm
	WSM525-FE	Heat	2.5 m³/h	M-Bus Funk	Battery [1]	Ultrasonic meter	G 1"	130 mm
	WSM625-BE	Heat	2.5 m³/h	M-Bus	Battery [1]	Ultrasonic meter	G 1"	130 mm
	WSN525-BE	Combi	2.5 m³/h	M-Bus	Battery [1]	Ultrasonic meter	G 1"	130 mm
	WSN525-FE	Combi	2.5 m³/h	M-Bus Funk	Battery [1]	Ultrasonic meter	G 1"	130 mm
	WSN625-BE	Combi	2.5 m³/h	M-Bus	Battery [1]	Ultrasonic meter	G 1"	130 mm
	WSM805-FBBAE3A	Heat	0.6 m³/h	M-Bus	M-Bus plus 1 back-up battery [2]	Ultrasonic meter	G 3/4"	110 mm
	WSM821-FBBAE3A	Heat	1.5 m³/h	M-Bus	M-Bus plus 1 back-up battery [2]	Ultrasonic meter	G 3/4"	110 mm
	WSM836-FBBAE3A	Heat	2.5 m³/h	M-Bus	M-Bus plus 1 back-up battery [2]	Ultrasonic meter	G 1"	130 mm
	WSM836-FHBAE3A	Heat	0.6 m³/h	M-Bus	M-Bus plus 1 back-up battery [2]	Ultrasonic meter	G 3/4"	110 mm
	WSM821-FHBAE3A	Heat	1.5 m³/h	M-Bus	M-Bus plus 1 back-up battery [2]	Ultrasonic meter	G 3/4"	110 mm
	WSM836-FHBAE3A	Heat	2.5 m³/h	M-Bus	M-Bus plus 1 back-up battery [2]	Ultrasonic meter	G 1"	130 mm
	WSN805-FBBBF3A	Combi	0.6 m³/h	M-Bus	M-Bus plus 2 back-up batteries [1]	Ultrasonic meter	G 3/4"	110 mm
	WSN821-FBBBF3A	Combi	1.5 m³/h	M-Bus	M-Bus plus 2 back-up batteries [1]	Ultrasonic meter	G 3/4"	110 mm
	WSN836-FBBBF3A	Combi	2.5 m³/h	M-Bus	M-Bus plus 2 back-up batteries [1]	Ultrasonic meter	G 1"	130 mm

[1] Battery life: 11 years
[2] Battery life: 6 years

Ultrasonic meters

	Type of meter	Nominal flow rate	Communication	Power supply	Type	Connec-tion	Mounting length
UH50-A05-00	Heat	0.6 m³/h	none [3]	none [3]	Ultrasonic meter	G 3/4"	110 mm
UH50-C05-00	Heat	0.6 m³/h	none [3]	none [3]	Ultrasonic meter	G 3/4"	110 mm
UH50-C06-00	Combi	0.6 m³/h	none [3]	none [3]	Ultrasonic meter	G 3/4"	110 mm
UH50-A21-00	Heat	1.5 m³/h	none [3]	none [3]	Ultrasonic meter	G 3/4"	110 mm
UH50-C21-00	Heat	1.5 m³/h	none [3]	none [3]	Ultrasonic meter	G 3/4"	110 mm
UH50-C22-00	Combi	1.5 m³/h	none [3]	none [3]	Ultrasonic meter	G 3/4"	110 mm
UH50-C25-00	Combi	1.5 m³/h	none [3]	none [3]	Ultrasonic meter	G 1"	190 mm
UH50-A36-00	Heat	2.5 m³/h	none [3]	none [3]	Ultrasonic meter	G 1"	130 mm
UH50-C36-00	Heat	2.5 m³/h	none [3]	none [3]	Ultrasonic meter	G 1"	130 mm
UH50-C37-00	Combi	2.5 m³/h	none [3]	none [3]	Ultrasonic meter	G 1"	130 mm
UH50-C40-00	Combi	2.5 m³/h	none [3]	none [3]	Ultrasonic meter	G 1"	190 mm
UH50-A45-00	Heat	3.5 m³/h	none [3]	none [3]	Ultrasonic meter	G 1 1/4"	260 mm
UH50-C45-00	Combi	3.5 m³/h	none [3]	none [3]	Ultrasonic meter	G 1 1/4"	260 mm
UH50-C47-00	Combi	3.5 m³/h	none [3]	none [3]	Ultrasonic meter	G 1 1/4"	260 mm
UH50-A50-00	Heat	6.0 m³/h	none [3]	none [3]	Ultrasonic meter	G 1 1/4"	260 mm
UH50-C50-00	Combi	6.0 m³/h	none [3]	none [3]	Ultrasonic meter	G 1 1/4"	260 mm
UH50-C52-00	Combi	6.0 m³/h	none [3]	none [3]	Ultrasonic meter	DN 25	260 mm
UH50-C60-00	Combi	10 m³/h	none [3]	none [3]	Ultrasonic meter	G 2"	300 mm
UH50-A61-00	Heat	10 m³/h	none [3]	none [3]	Ultrasonic meter	DN 40	300 mm
UH50-C61-00	Combi	10 m³/h	none [3]	none [3]	Ultrasonic meter	DN 40	300 mm
UH50-A65-00	Heat	15 m³/h	none [3]	none [3]	Ultrasonic meter	DN 50	270 mm
UH50-C65-00	Combi	15 m³/h	none [3]	none [3]	Ultrasonic meter	DN 50	270 mm
UH50-A70-00	Heat	25 m³/h	none [3]	none [3]	Ultrasonic meter	DN 65	300 mm
UH50-C70-00	Combi	25 m³/h	none [3]	none [3]	Ultrasonic meter	DN 65	300 mm
UH50-A74-00	Heat	40 m³/h	none [3]	none [3]	Ultrasonic meter	DN 80	300 mm
UH50-C74-00	Combi	40 m³/h	none [3]	none [3]	Ultrasonic meter	DN 80	300 mm
UH50-A83-00	Heat	60 m³/h	none [3]	none [3]	Ultrasonic meter	DN 100	360 mm
UH50-C83-00	Combi	60 m³/h	none [3]	none [3]	Ultrasonic meter	DN 100	360 mm

[3] Various communication and power supply modules available

Meters
Electronic heat cost allocators
Electronic heat cost allocators WHE50..

1

Electronic heat cost allocator   WHE50..

Device for heat cost allocation by acquiring the amount of heat emitted by radiators.
WHE50.. heat cost allocators without communication interface must be visually read on site and the readings must be manually written down. They are especially suited for basic plants that require no complex data evaluations or no very fast readout.
- Programming is performed with the ACT50 software.
- Available as a two-sensor device or with remote sensor.

All heat cost allocators are supplied without mounting plate. The mounting plate must be ordered as a separate item.

Data sheet	A6V10786229
Voltage supply	Lithium battery
Battery life	>10 Years
Operating voltage	DC 3 V
Display	LCD
Dimensions (W x H x D)	40 x 102 x 31 mm

Range overview WHE50..

Product Title	Stock no.	Product no.
Electronic heat cost allocator with watchdog timer, Double sensor, Summer switch-off: 06/01 – 08/31, due date 12/31	S55562-F101	**WHE502-D10**

1

Meters
Electronic heat cost allocators
Electronic heat cost allocators WHE54..

WHE54..

Electronic heat cost allocators (RF)

Device for heat cost allocation by acquiring the amount of heat emitted by radiators.
The heat cost allocators transmit simultaneously walk-by and AMR telegrams in S-mode (RF 868 MHz).
Readout is performed via walk-by, the consumption data are collected on site using a mobile data collector. If the data shall be read out from a remote location (AMR), they are collected by a network node, stored and periodically sent to the customer via gateway.
- Programming is performed with the ACT50 software.
- Available as a two-sensor device or with remote sensor
- Communication in S-mode or C-mode

All heat cost allocators are supplied without mounting plate. The mounting plate must be ordered as a separate item.

Data sheet	A6V10786229
Voltage supply	Lithium battery
Battery life	>10 Years
Operating voltage	DC 3 V
Display	LCD
Dimensions (W x H x D)	40 x 102 x 31 mm

Range overview WHE54..

Product Title	Stock no.	Product no.
Electronic heat cost allocator with watchdog timer, Double sensor, Summer switch-off: 06/01 – 08/31, due date 12/31, meter reading by walk-by: Annualy, S-mode	S55562-F127	**WHE542-D100S**
Electronic heat cost allocator with watchdog timer, Double sensor, Summer switch-off: 06/01 – 09/30, due date 09/30, meter reading by walk-by: Monthly, S-mode	S55562-F128	**WHE542-D291S**

WHE632-D292C

Electronic heat cost allocator with watchdog timer, Double sensor, Summer switch-off: 06/01 - 09/30, due date 09/30, C-mode

Device for heat cost allocation by acquiring the amount of heat emitted by radiators.
The heat cost allocators transmit simultaneously walk-by and AMR telegrams in C-mode (RF 868 MHz).
Readout is performed via walk-by, the consumption data are collected on site using a mobile data collector. If the data shall be read out from a remote location (AMR), they are collected by a network node, stored and periodically sent to the customer via gateway.
- Programming is performed with the ACT50 software.
- Available as a two-sensor device or with remote sensor
- Communication in C-mode

All heat cost allocators are supplied without mounting plate. The mounting plate must be ordered as a separate item.

Data sheet	A6V10786229
Voltage supply	Lithium battery
Battery life	>10 Years
Operating voltage	DC 3 V
Due Date	09.30
Display	LCD
Dimensions (W x H x D)	40 x 102 x 31 mm

	Stock no.	Product no.
	S55562-F129	**WHE632-D292C**

1

Meters
Electronic heat cost allocators
Accessories and mounting material for WHE5..

Parts for fixing

Product Title	Packaging unit	Stock no.	Product no.
Threaded hoop (pipe 18...30 mm)	10 pieces	JXF:FKT0014	**FKT0014**
Threaded hoop (pipe up to 17 mm)	10 pieces	JXF:FKT0004	**FKT0004**
Shank nut M3 x 3 mm	100 pieces	JXF:FNM0002	**FNM0002**
Shank nut M3 x 6 mm	100 pieces	JXF:FNM0003	**FNM0003**
Shank nut M3 x 9.5 mm	100 pieces	JXF:FNM0001	**FNM0001**
Clamping sleeve special radiator	10 pieces	JXF:FKM0002	**FKM0002**
Clamping bracket (pipes TE 36 mm)	10 pieces	JXF:FKT0015	**FKT0015**
Clamping bracket (pipes TE 46 mm)	10 pieces	JXF:FKT0016	**FKT0016**
Clamping bracket shortened	10 pieces	JXF:FKT0009	**FKT0009**
Clamping bracket trapezoidal 35 mm	10 pieces	JXF:FKT0018	**FKT0018**
Clamping bracket trapezoidal 50 mm	10 pieces	JXF:FKT0019	**FKT0019**
Clamping bracket trapezoidal 65 mm	10 pieces	JXF:FKT0020	**FKT0020**
Expanding bracket of lamella-type radiator	10 pieces	JXF:FKA0004	**FKA0004**
Square bolt 4.5 mm with cross pin	10 pieces	JXF:BOZ4002	**BOZ4002**
Square bolt 6 mm with cross pin	10 pieces	JXF:BOZ4003	**BOZ4003**
Square bolt 12 mm with cross pin	10 pieces	JXF:BOZ4004	**BOZ4004**

Parts for mounting

Product Title	Packaging unit	Stock no.	Product no.
Mounting plate (P3)	50 pieces	S55563-F115	**FKA0017**
Mounting plate wide	25 pieces	JXF:FKA0022	**FKA0022**
Prism for installation plate	1 piece	JXF:FKA0001	**FKA0001**
Spacer sleeve	10 pieces	JXF:FKT0010	**FKT0010**
Spacer	10 pieces	JXF:FKA0013	**FKA0013**
Threaded bushing	10 pieces	JXF:FKA0012	**FKA0012**
Clamping piece (threaded hoop 17 mm)	10 pieces	JXF:FKA0003	**FKA0003**
Clamping piece (threaded hoop 18...30 mm)	10 pieces	JXF:FKA0008	**FKA0008**
Installation plate for remote sensor	10 pieces	JXF:FKA0009	**FKA0009**
Wall bracket (P3)	10 pieces	JXF:FKK0044	**FKK0044**
Contact screw	10 pieces	JXF:FKA0010	**FKA0010**
Contact screw long	10 pieces	JXF:FKA0011	**FKA0011**

Standard parts

Product Title	Packaging unit	Stock no.	Product no.
Self-tapping screw B 2.9 x 13 mm	500 pieces	JXF:FNR0008	**FNR0008**
Screw B 3.9 x 45 mm	500 pieces	JXF:FNR0007	**FNR0007**
Cross-slot screw M4 x 30 mm	500 pieces	JXF:FNR0003	**FNR0003**
Cross-slot screw M4 x 40 mm	500 pieces	JXF:FNR0004	**FNR0004**
Cross-slot screw M4 x 50 mm	500 pieces	JXF:FNR0005	**FNR0005**
Cross-slot screw M4 x 70 mm	500 pieces	JXF:FNR0006	**FNR0006**
Welding stud M3 x 8 mm	1000 pieces	JXF:FKT0013	**FKT0013**
Welding stud M3 x 12 mm	1000 pieces	JXF:FKT0011	**FKT0011**
Welding stud M3 x 15 mm	1000 pieces	JXF:FKT0012	**FKT0012**
Hexagon nut M4	1000 pieces	JXF:FNM0004	**FNM0004**
Self-locking nut with serrated bearing M3	1000 pieces	JXF:FNM0005	**FNM0005**

Miscellaneous accessory

Product Title	Packaging unit	Stock no.	Product no.
Dowel 6 mm	100 pieces	JXF:FNU0001	**FNU0001**
Kit remote sensor 1.5 m	1 piece	JXF:HCAIK0100S1	**HCAIK0100S1**
Kit remote sensor 2.5 m	1 piece	JXF:HCAIK0100S2	**HCAIK0100S2**
Kit remote sensor 5 m	1 piece	JXF:HCAIK0100S5	**HCAIK0100S5**

Electronic heat cost allocators
Accessories and mounting material for WHE5..

Miscellaneous accessory

Product Title	Packaging unit	Stock no.	Product no.
Lead seal blue	100 pieces	JXF:FKK0041	**FKK0041**
Cable duct white	10 m	JXF:FOZ0001	**FOZ0001**
Snap-on panel	50 pieces	JXF:FKK0034	**FKK0034**
Installation template	1 piece	JXF:HCAIP001001	**HCAIP001001**
Installation aid (convector)	1 piece	JXF:FKT0017	**FKT0017**
ERGO universal instant glue 3g	1 piece	JXF:FSS0007	**FSS0007**

Programming tools and software

Product Title	Stock no.	Product no.
ACT50 – Readout and parameterization software	JXF:ACT50	**ACT50**
Infrared read head (with USB interface)	JXF:WFZ.IRDA-USB	**WFZ.IRDA-USB**
Programming adapter	JXF:HCAPH001001	**HCAPH001001**

1

Meters
Mechanical water meters
Mechanical single-jet water meters

Mechanical single-jet water meters (module compatible)

WFK30.. / WFW30..

Mechanical single-jet impeller meter for measuring the consumption of cold (WFK30..) or hot water (WFW30..). Display of cumulated consumption. Versions without remote reading output. Body made of brass, dry-runner with magnetic transmission and pivotable totalizer. All water meters WFK30.. and WFW30.. can be retrofitted with electronic communication modules for radio (WFZ661) or M-Bus (WFZ311) readout. These meters are MID conform.
- Metrological class, horizontal mounting of body = R80 (class B).
- Metrological class, vertical mounting of body = R40 (class A).
- Flow rate Q3 according 2004/22/EC MID

Mechanical water meter to acquire the water consumption in domestic water systems in residential or non-residential buildings and in water supply systems.

The meters are supplied with Installation Instructions in the following languages: English, French, German, Italian, Russian and Spanish.

Data sheet	N5326
PN class	PN 16
Display	m3; 0...99999.999

Range overview WFK30.. / WFW30..

Flow rate Q3 [m³/h]	Mounting length [mm]	Connect. thread	Max. water temperature [°C]	Stock no.	Product no.
2.5	80	G ¾"	30	S55560-F100	**WFK30.D080**
2.5	110	G ¾"	30	S55560-F101	**WFK30.D110**
4	130	G 1"	30	JXF:WFK30.E130	**WFK30.E130**
2.5	80	G ¾"	90	S55560-F102	**WFW30.D080**
2.5	110	G ¾"	90	S55560-F103	**WFW30.D110**
4	130	G 1"	90	JXF:WFW30.E130	**WFW30.E130**

1

Meters
Mechanical water meters
Mechanical single-jet water meters

WF.240..

Mechanical single-jet water meter with module slot, cold or hot

The mechanical single-jet impeller type meters are of compact design and used for measuring the consumption of cold water (WFK240..) or hot water (WFW240..). They are available as wall-mounted dry runner versions in different sizes, with a flow measuring section body made of brass. The cumulated consumption value acquired by the water meter can be read out on site. All water meters WFK240.. and WFW240.. can be retrofitted with a pulse module equipped with Reed contact (WFZ44) or Reed contact with Namur circuit (WFZ43). They conform to MID.

The meters are supplied with Installation Instructions in the following languages: Bulgarian, Croatian, Czech, Dutch, English, Finnish, French, German, Greek, Hungarian, Italian, Lithuanian, Norwegian, Polish, Slovakian, Slovenian, Spanish, Turkish.

Mechanical single-jet water meter with module slot, cold or hot

Data sheet	A6V12048975
PN class	PN 16
Display	m3; 0...99999.999

Range overview WF.240..

Flow rate Q3 [m³/h]	Mounting length [mm]	Con-nect. thread	Max. water temperature [°C]	Stock no.	Product no.
2.5	80	G ¾"	50	S55560-F110	WFK240.D080
2.5	110	G ¾"	50	S55560-F111	WFK240.D110
4	130	G 1"	50	S55560-F112	WFK240.E130
2.5	80	G ¾"	90	S55560-F113	WFW240.D080
2.5	110	G ¾"	90	S55560-F114	WFW240.D110
4	130	G 1"	90	S55560-F115	WFW240.E130

New Product

1

Meters
Mechanical water meters
Mechanical capsule water meters

Mechanical capsule water meter flush-mounted (module compatible)

WMK10../WMW10..

Mechanical capsule water meter for measuring the consumption of hot (WMW..) and cold (WMK..) water. Designed specifically for flush-mounting. The meter consists of an easy-to-replace measuring cell with a mechanical totalizer and a single-pipe connecting piece (EAT) which must be ordered separately and which is firmly connected to the water pipe. Suited for flush or wall mounting. Display of cumulated consumption. Dry-runner with magnetic transmission and pivotable totalizer. Body and single-pipe connecting piece are made of brass. Versions without remote reading output. The mechanical capsule water meters WMK10.D and WMW10.D can be retrofitted with electronic modules for M-Bus radio (WFZ661) or M-Bus (WFZ311) readout are MID approved. For the use with radio modules there are extra rosettes and bezels available.
Metrological class, horizontal mounting of body = class B
Metrological class, vertical mounting of body = class A

Mechanical water meter to acquire the water consumption in domestic water systems in residential or non-residential buildings and in water supply systems.

The meters are supplied with Installation Instructions in the following languages: English, French, German, Italian, Russian and Spanish.

Data sheet	N5327
PN class	PN 10

Range overview measuring cell water meters without remote reading output

Nominal flow rate [m³/h]	Connect. thread	Max. water temperature [°C]	Stock no.	Product no.
2.5	G 2"	30	JXF:WMK10.D	**WMK10.D**
2.5	G 2"	90	JXF:WMW10.D	**WMW10.D**

1

Meters
Mechanical water meters
Accessories for mechanical water meters

Communication modules

Product Title	Stock no.	Product no.
M-bus add-on module for water meters WF.30.. / WM.10..	S55563-F158	**WFZ311**
Add-on radio module WFZ661 for water meters WF.30.. / WM.10..	S55563-F147	**WFZ661**
Pulse add-on module with reed contact for WF.240.. water meters	S55563-F134	**WFZ44**
Pulse add-on module with reed contact and namur circuit for WF.240.. water meters	S55563-F135	**WFZ43**

Mounting material for single-jet water meters

Product Title	Stock no.	Product no.
Adapter set from G ¾" to 1", incl. gaskets	JXF:WZM-V110	**WZM-V110**
Extension set from 110 mm G ¾" to 130 mm G ¾", incl. gaskets	JXF:WZM-V130	**WZM-V130**
Extension set from 110 mm G ¾" to 165 mm G ¾", incl. gaskets	JXF:WZM-V165	**WZM-V165**
Extension set from 110 mm G ¾" to 190 mm G 1", incl. gaskets	JXF:WZM-V190	**WZM-V190**
Spacer G ¾", length 80 mm	JXF:WFZ.R80	**WFZ.R80**
Spacer G ¾", length 110mm	JXF:WFZ.R110	**WFZ.R110**
Spacer G 1", length 130 mm	JXF:WFZ.R130	**WFZ.R130**
WFZ.R2 Mounting kit	S55563-F151	**WFZ.R2**
WFZ.R2-1 Mounting kit	S55563-F152	**WFZ.R2-1**
Mounting kit for washstand water meter	JXF:WFZ.W	**WFZ.W**
Mounting kit for tap water meter	JXF:WFZ.Z	**WFZ.Z**
Self-lock seal with sealing wire	JXF:WFZ.P	**WFZ.P**
Torque Screwdriver, Torx Plus™	JXF:FZ201-009	**FZ201-009**

Mounting material for capsule water meters

Product Title	Data sheet	Stock no.	Product no.
M-bus add-on module for water meters WF.30.. / WM.10..	A6V11991477	S55563-F158	**WFZ311**
EAT cover		JXF:WME.VRING	**WME.VRING**
Add-on radio module WFZ661 for water meters WF.30.. / WM.10..	A6V10986918	S55563-F147	**WFZ661**
Self-lock seal with sealing wire		JXF:WFZ.P	**WFZ.P**
Single-pipe connecting piece		JXF:WME.G20/OV/H	**WME.G20/OV/H**
Single-pipe connecting piece (EAT)		JXF:WME.L15/OV/H	**WME.L15/OV/H**
Single-pipe connecting piece (EAT)		JXF:WME.L18/OV/H	**WME.L18/OV/H**
Single-pipe connecting piece (EAT)		JXF:WME.L22/OV/H	**WME.L22/OV/H**
Mounting aid		JXF:WME.EINPUTZ1	**WME.EINPUTZ1**
Profiled seal		JXF:WME.PRODICHT	**WME.PRODICHT**
Mounting key		JXF:WMZ.K5	**WMZ.K5**
Sealing ring	A6V12128928	JXF:FKK0139	**FKK0139**
Torque Screwdriver, Torx Plus™		JXF:FZ201-009	**FZ201-009**
Guide piece for M77 x 1.5 mm capsule water meter	A6V12128928	JXF:FKK0173	**FKK0173**
O-ring for M77 x 1.5 mm capsule water meter	A6V12128928	JXF:FKS0034	**FKS0034**
Round cover with thrust tube in chrome look	A6V12128928	JXF:WMXI.KCR1-001	**WMXI.KCR1-001**
Round cover with thrust tube in white	A6V12128928	JXF:WMXI.KBL1-001	**WMXI.KBL1-001**
Inner extensions for thrust tube (5 pcs./PU) in chrome look	A6V12128928	JXF:WMXI.KCR1-002	**WMXI.KCR1-002**
Inner extensions for thrust tube (5 pcs./PU) in white	A6V12128928	JXF:WMXI.KBL1-002	**WMXI.KBL1-002**
Outer extensions for thrust tube (5 pcs./PU) in chrome look	A6V12128928	JXF:WMXI.KCR1-003	**WMXI.KCR1-003**
Outer extensions for thrust tube (5 pcs./PU) in white	A6V12128928	JXF:WMXI.KBL1-003	**WMXI.KBL1-003**

Software and Tools

Product Title	Data sheet	Stock no.	Product no.
ACT50 – Readout and parameterization software	N2887	JXF:ACT50	**ACT50**
Infrared read head (with USB interface)	N2886	JXF:WFZ.IRDA-USB	**WFZ.IRDA-USB**
Triggering tool for radio telegrams		JXF:WFZ.PS	**WFZ.PS**

New Product

1

Meters
Electronic water meters
Electronic screw-type water meters

Electronic impeller type cold or hot water meter

WF.636..

The electronic single-jet impeller type water meters are of compact design and used for measuring the consumption of cold water (WFK636..) or hot water (WFW636..). They are available as wall-mounted dry runner versions in different sizes, with a flow measuring section body made of brass. The cummulated consumption values determined by the meter can be read out on the meter itself or remotely via M-bus radio (AMR / walk-by).

Metrologically, the water meters are classified as follows:
• Horizontal: R80
• Vertical: R50

They are used primarily in domestic water systems in residential or non-residential buildings and in water supply systems.

The meters are supplied with Installation Instructions in the following languages: Bulgarian, Croatian, Czech, Dutch, English, Finnish, French, German, Greek, Hungarian, Italian, Lithuanian, Norwegian, Polish, Romanian, Russian, Slovakian, Slovenian, Spanish, Turkish.

Data sheet	A6V12128928
PN class	PN 16
Battery life	10 years
Display	8 digits on LCD

Range overview WF.636..

Flow rate Q3	Mounting length [mm]	Con-nect. thread	Max. water temperature	Communi-cation	Stock no.	Product no.
2.5	80	G ¾"	30	Wireless M-Bus S-Mode	S55560-F116	**WFK636.D080**
2.5	110	G ¾"	30	Wireless M-Bus S-Mode	S55560-F117	**WFK636.D110**
4	130	G 1"	30	Wireless M-Bus S-Mode	JXF:WFK636.E130	**WFK636.E130**
2.5	80	G ¾"	90	Wireless M-Bus S-Mode	S55560-F118	**WFW636.D080**
2.5	110	G ¾"	90	Wireless M-Bus S-Mode	S55560-F119	**WFW636.D110**
4	130	G 1"	90	Wireless M-Bus S-Mode	JXF:WFW636.E130	**WFW636.E130**

Accessories

Product Title	Data sheet	Stock no.	Product no.
Adapter set from G ¾" to 1", incl. gaskets		JXF:WZM-V110	**WZM-V110**
Extension set from 110 mm G ¾" to 130 mm G ¾", incl. gaskets		JXF:WZM-V130	**WZM-V130**
Extension set from 110 mm G ¾" to 165 mm G ¾", incl. gaskets		JXF:WZM-V165	**WZM-V165**
Extension set from 110 mm G ¾" to 190 mm G 1", incl. gaskets		JXF:WZM-V190	**WZM-V190**
Spacer G ¾", length 80 mm		JXF:WFZ.R80	**WFZ.R80**
Spacer G ¾", length 110mm		JXF:WFZ.R110	**WFZ.R110**
Spacer G 1", length 130 mm		JXF:WFZ.R130	**WFZ.R130**
WFZ.R2 Mounting kit		S55563-F151	**WFZ.R2**
WFZ.R2-1 Mounting kit		S55563-F152	**WFZ.R2-1**
Self-lock seal with sealing wire		JXF:WFZ.P	**WFZ.P**

Software and Tools

Product Title	Data sheet	Stock no.	Product no.
ACT50 – Readout and parameterization software	N2887	JXF:ACT50	**ACT50**
Infrared read head (with USB interface)	N2886	JXF:WFZ.IRDA-USB	**WFZ.IRDA-USB**
Triggering tool for radio telegrams		JXF:WFZ.PS	**WFZ.PS**

New Product

1

Meters
Electronic water meters
Electronic measuring capsule water meters

WM.636..	**Electronic multi-jet measuring capsule water meters**

The electronic multi-jet measuring capsule water meters are of compact design and used for measuring the consumption of cold water (WMK636..) or hot water (WMW636..).
In most cases, the single-pipe connection piece (EAT) is already present and embedded in the masonry. The measuring capsule is screwed on accordingly.
The cummulated consumption values determined by the meter can be read out on the meter itself or remotely via M-bus radio (AMR / walk-by).

Metrologically, the water meters are classified as follows:
- Horizontal: R80
- Vertical: R40

They are used primarily in existing domestic water systems in residential or non-residential buildings and in water supply systems.

The meters are supplied with Installation Instructions in the following languages: Bulgarian, Croatian, Czech, Dutch, English, Finnish, French, German, Greek, Hungarian, Italian, Lithuanian, Norwegian, Polish, Romanian, Russian, Slovakian, Slovenian, Spanish, Turkish.

Data sheet	A6V12128928
PN class	PN 16
Battery life	10 years
Display	8 digits on LCD

Range overview WM.636..

Flow rate Q3	Con-nect. thread	Max. water temperature	Communi-cation	Stock no.	Product no.
2.5	M77 x 1.5 mm	30	Wireless M-Bus S-Mode	JXF:WMK636.DAL00	**WMK636.DAL00**
2.5	G 2"	30	Wireless M-Bus S-Mode	JXF:WMK636.DIS00	**WMK636.DIS00**
2.5	M62 x 2 mm	30	Wireless M-Bus S-Mode	JXF:WMK636.DTE00	**WMK636.DTE00**
2.5	M77 x 1.5 mm	90	Wireless M-Bus S-Mode	JXF:WMW636.DAL00	**WMW636.DAL00**
2.5	G 2"	90	Wireless M-Bus S-Mode	JXF:WMW636.DIS00	**WMW636.DIS00**
2.5	M62 x 2 mm	90	Wireless M-Bus S-Mode	JXF:WMW636.DTE00	**WMW636.DTE00**

Accessories

Product Title	Data sheet	Stock no.	Product no.
EAT cover		JXF:WME.VRING	**WME.VRING**
Self-lock seal with sealing wire		JXF:WFZ.P	**WFZ.P**
Single-pipe connecting piece		JXF:WME.G20/OV/H	**WME.G20/OV/H**
Single-pipe connecting piece (EAT)		JXF:WME.L15/OV/H	**WME.L15/OV/H**
Single-pipe connecting piece (EAT)		JXF:WME.L18/OV/H	**WME.L18/OV/H**
Single-pipe connecting piece (EAT)		JXF:WME.L22/OV/H	**WME.L22/OV/H**
Mounting aid		JXF:WME.EINPUTZ1	**WME.EINPUTZ1**
Profiled seal		JXF:WME.PRODICHT	**WME.PRODICHT**
Mounting key		JXF:WMZ.K5	**WMZ.K5**
Sealing ring	A6V12128928	JXF:FKK0139	**FKK0139**
Guide piece for M77 x 1.5 mm capsule water meter	A6V12128928	JXF:FKK0173	**FKK0173**
O-ring for M77 x 1.5 mm capsule water meter	A6V12128928	JXF:FKS0034	**FKS0034**
Round cover with thrust tube in chrome look	A6V12128928	JXF:WMXI.KCR1-001	**WMXI.KCR1-001**
Round cover with thrust tube in white	A6V12128928	JXF:WMXI.KBL1-001	**WMXI.KBL1-001**
Inner extensions for thrust tube (5 pcs./PU) in chrome look	A6V12128928	JXF:WMXI.KCR1-002	**WMXI.KCR1-002**

1

Meters
Electronic water meters
Electronic measuring capsule water meters

Accessories

Product Title	Data sheet	Stock no.	Product no.
Inner extensions for thrust tube (5 pcs./PU) in white	A6V12128928	JXF:WMXI.KBL1-002	**WMXI.KBL1-002**
Outer extensions for thrust tube (5 pcs./PU) in chrome look	A6V12128928	JXF:WMXI.KCR1-003	**WMXI.KCR1-003**
Outer extensions for thrust tube (5 pcs./PU) in white	A6V12128928	JXF:WMXI.KBL1-003	**WMXI.KBL1-003**

Software and Tools

Product Title	Data sheet	Stock no.	Product no.
ACT50 – Readout and parameterization software	N2887	JXF:ACT50	**ACT50**
Infrared read head (with USB interface)	N2886	JXF:WFZ.IRDA-USB	**WFZ.IRDA-USB**
Triggering tool for radio telegrams		JXF:WFZ.PS	**WFZ.PS**

New Product

1

Meters
Impeller type heat/cooling energy meters
Impeller type heat/cooling energy meters WFM5.. / WFN5..

WF.5..

Electronic impeller type heat and heat / cooling energy meters

The compact, electronic and mains-independent impeller type heat and cool energy meters WF.5.. are used for the physically correct acquisition of energy consumption. They are available as wall-mounting versions in different sizes and have been developed for heat, combined heat/cooling or solar energy metering.

The devices consist of flow measuring section, 2 ready connected temperature sensors and a processor which – based on flow rate and temperature differential – calculates the energy consumption.

The consumption values can be read out either on the meter itself or from a remote location. Using modules, the noncommunicating meters (WF.50..) can be upgraded for readout via AMR/walk-by (WFZ662) or M-bus (WFZ51).

In addition to modules, the meters with M-bus communication (WF.54..) are equipped with 2 pulse inputs for reading out 2 water meters (Reed contact).

The WF.5.. are used primarily in plants with central production of heat or heat and cooling energy, where the energy is supplied via zones to several individual consumers in the building.

The meters are supplied with Operating and Mounting Instructions in the following languages:
Bulgarian, Croatian, Czech, Dutch, English, Finnish, French, German, Greek, Hungarian, Italian, Lithuanian, Norwegian, Polish, Slovakian, Slovenian, Spanish and Turkish

Data sheet	CE2N5323, A6V10800216
Measurement accuracy	MID class 3
Operating voltage	DC 3 V
Voltage supply	Lithium battery
Standard	DIN EN 1434
Battery life	> 10 years
PN class	PN 16
Measuring range, temperature	Heat: 15...105 °C
	Refrigeration range: 0.2...24 °C
Temperature response threshold	Heat: 1.0 K
	Cold: 0.2 K
Sensing element, temperature	Pt1000
Sensor	DS Ø5.0x45 mm
Cable length, sensor	1.5 m
Due Date	12.31
Display	kWh
Mounting location	Meter: return
	Sensor in the flow: directly immersed or in approved protection pockets
	Sensor in the return: integrated in the return, directly immersed

Range overview WF.5..

Nominal flow rate [m³/h]	Mounting length [mm]	Connect. thread	Communication	Type of Meter	Connect. thread	Stock no.	Product no.
0.6	110	G ¾ "	IrDA + module interface	Heat	G ¾"	S55561-F177	**WFM501-E000H0**
0.6	110	G ¾ "	IrDA, M-bus & pulse inputs	Heat	G ¾"	S55561-F239	**WFM541-G000H0**
1.5	110	G ¾ "	IrDA + module interface	Heat	G ¾"	S55561-F178	**WFM502-E000H0**
1.5	80	G ¾ "	IrDA, M-bus & pulse inputs	Heat	G ¾"	S55561-F240	**WFM542-C000H0**
1.5	110	G ¾ "	IrDA, M-bus & pulse inputs	Heat	G ¾"	S55561-F241	**WFM542-G000H0**
2.5	130	G 1 "	IrDA + module interface	Heat	G 1"	S55561-F179	**WFM503-J000H0**
2.5	130	G 1 "	IrDA, M-bus & pulse inputs	Heat	G 1"	S55561-F242	**WFM543-L000H0**

Meter mounting for WFM542-C000H0: return; Sensor in the flow: directly immersed or in approved protection pockets; Sensor in the return: not integrated, directly immersed or in approved protection pockets.

1

Meters
Impeller type heat/cooling energy meters
Impeller type heat/cooling energy meters WFM6.. / WFN6..

Electronic impeller type heat and heat/cooling energy meter set with RF communication

WF.6..

The impeller type heat and heat/cooling energy meter set WF.6.. consists of a non-communicative meter and a preinstalled RF communication module.

The electronic, mains-independent impeller type heat and heat/cooling energy meter is of compact design and used for the physically correct acquisition of energy consumption. The meter consists of a flow measuring section, two ready connected temperature sensors and an integrated processor which – based on flow rate and temperature differential – calculates the energy consumption.

The consumption values can be read out either on the meter itself or from a remote location via AMR or walk-by.

The WF.6.. are used primarily in plants with central production of heat and heat/cooling energy, where the energy is supplied via zones to several individual consumers in the building.

Data sheet	A6V11259309
Measurement accuracy	MID class 3
Standard	DIN EN 1434
Voltage supply	Lithium battery
Operating voltage	DC 3 V
Battery life	> 10 years
PN class	PN 16
Measuring range, temperature	Heat: 15...105 °C
	Refrigeration range: 0.2...24 °C
Temperature response threshold	Heat: 1.0 K
	Cold: 0.2 K
Sensing element, temperature	Pt1000
Sensor	DS Ø5.0x45 mm
Cable length, sensor	1.5 m
Due Date	12.31
Display	kWh
Mounting location	Return

Range overview WFM6.. / WFN6..

Nominal flow rate [m³/h]	Mounting length [mm]	Connect. thread ["]	Communication	Type of Meter	Connect. thread	Stock no.	Product no.
0.6	110	G ¾	IrDA interface	Heat	G ¾"	S55561-F260	**WFM681-G000H0**
1.5	110	G ¾	IrDA interface	Heat	G ¾"	S55561-F261	**WFM682-G000H0**
2.5	130	G 1	IrDA interface	Heat	G 1"	S55561-F262	**WFM683-L000H0**

1

Meters
Impeller type heat/cooling energy meters
Accessories for impeller type heat meters

Screwed type meters

Product Title	Stock no.	Product no.
Installation set Rp ½" - ball valve Rp ½" with coupling nut G ¾" and flat gaskets	JXF:HMXIK001-001	**HMXIK001-001**
Installation set Rp ¾" - ball valve Rp ¾" with coupling nut G ¾" and flat gaskets	JXF:HMXIK001-002	**HMXIK001-002**
Installation set Rp 1" - ball valve Rp 1" with coupling nut G ¾" and flat gaskets	JXF:HMXIK001-003	**HMXIK001-003**
Installation set Rp 1" - ball valve Rp 1" with coupling nut G 1" and flat gaskets	JXF:HMXIK001-004	**HMXIK001-004**
Installation set Rp ¾" - ball valve Rp ¾" with coupling nut G 1" and flat gaskets	JXF:HMXIK001-005	**HMXIK001-005**

Installation sets fittings

Product Title	Stock no.	Product no.
Installation set R ½" - fitting R ½" with coupling nut G ¾" and flat gaskets	JXF:HMXIK002-001	**HMXIK002-001**
Installation set R ¾" - fitting R ¾" with coupling nut G ¾" and flat gaskets	JXF:HMXIK002-002	**HMXIK002-002**
Installation set R 1" - fitting R 1" with coupling nut G ¾" and flat gaskets	JXF:HMXIK002-003	**HMXIK002-003**
Installation set R 1" - fitting R 1" with coupling nut G 1" and flat gaskets	JXF:HMXIK002-004	**HMXIK002-004**
Installation set R ¾" - fitting R ¾" with coupling nut G 1" and flat gaskets	JXF:HMXIK002-005	**HMXIK002-005**

Accessories

Product Title	Stock no.	Product no.
Fitting R ½" x G ¾"	JXF:FKM0018	**FKM0018**
Fitting R ¾" x G ¾"	JXF:FKM0019	**FKM0019**
Fitting R 1" x G ¾"	JXF:FKM0020	**FKM0020**
Fitting R ¾" x G 1"	JXF:FKM0021	**FKM0021**
Fitting R 1" x G 1"	JXF:FKM0022	**FKM0022**
Ball valve Rp ½" with thread	JXF:FKM0023	**FKM0023**
Ball valve Rp ¾" with thread	JXF:FKM0024	**FKM0024**
Ball valve Rp 1" with thread	JXF:FKM0025	**FKM0025**
Ball valve Rp ½" with coupling nut and thread	JXF:FKM0026	**FKM0026**
T-piece R ½" x G ¼"	JXF:FKM0035	**FKM0035**
T-piece R ¾" x G ¼"	JXF:FKM0036	**FKM0036**
T-piece R 1" x G ¼"	JXF:FKM0037	**FKM0037**
Immersion sleeve G ¼"	JXF:FKM0038	**FKM0038**
Immersion sleeve G ¼"	JXF:FKM0039	**FKM0039**
Temperatur sensor sleeve G ¼"	JXF:FKM0049	**FKM0049**
Temperatur sensor sleeve M10x1 mm	JXF:FKM0050	**FKM0050**
Immersion sleeve 5.0 mm, M10x1 mm	JXF:FKM0051	**FKM0051**
Immersion sleeve 5.2 mm, M10x1 mm	JXF:FKM0052	**FKM0052**
Spacer G ¾", length 80 mm	JXF:FKM0070	**FKM0070**
Spacer G ¾", length 110 mm	JXF:FKM0074	**FKM0074**
Spacer G 1", length 130 mm	JXF:FKM0075	**FKM0075**
Ball valve R ½" with coupling nut G ¾"	JXF:FKM0076	**FKM0076**
Ball valve R ¾" with coupling nut G ¾"	JXF:FKM0077	**FKM0077**
Ball valve Rp 1" with union nut G ¾"	JXF:FKM0078	**FKM0078**
Ball valve Rp ¾" with union nut G 1"	JXF:FKM0079	**FKM0079**
Ball valve Rp 1" with union nut G 1"	JXF:FKM0080	**FKM0080**
Flat gasket ¾"	JXF:FKS0005	**FKS0005**
Flat gasket 1"	JXF:FKS0006	**FKS0006**
Seal	JXF:FNS0001	**FNS0001**
M-bus cable for WF.54..	JXF:FKL0012	**FKL0012**
Impulse cable for WF.54..	JXF:FKL0013	**FKL0013**
Wall bracket	JXF:HMRIK001-001	**HMRIK001-001**
Adapter set from G ¾" to G 1"	JXF:HMXIK003-001	**HMXIK003-001**
Extension set from G ¾" to G 1"	JXF:HMXIK003-002	**HMXIK003-002**
Extension set from 110 mm G ¾" to 130 mm G ¾"	JXF:HMXIK003-003	**HMXIK003-003**
Extension set from 110 mm G ¾" to 165 mm G ¾"	JXF:HMXIK003-004	**HMXIK003-004**

Meters
Impeller type heat/cooling energy meters
Accessories for impeller type heat meters

1

Accessories

Product Title	Stock no.	Product no.
Extension set from 110 mm G ¾" to 190 mm G 1"	JXF:HMXIK003-005	**HMXIK003-005**
Temperature sensor screwed	JXF:HMXIK004-001	**HMXIK004-001**
Sensor accessories set	JXF:BOZ5005	**BOZ5005**

Add-on module for WF..5..

Product Title	Data sheet	Stock no.	Product no.
M-bus add-on module for WFx5.. meters	N5323	S55563-F131	**WFZ51**
Radio module with integrated antenna for WFx5.. meters	N5323	S55563-F153	**WFZ662**

Programming tools and software for impeller type heat meters

Product Title	Stock no.	Product no.
ACT50 – Readout and parameterization software	JXF:ACT50	**ACT50**
Infrared read head (with USB interface)	JXF:WFZ.IRDA-USB	**WFZ.IRDA-USB**
Triggering tool for radio telegrams	JXF:WFZ.PS	**WFZ.PS**
M-bus programming adapter (USB)	JXF:WFZ.MBM-USB	**WFZ.MBM-USB**

1

Meters
Ultrasonic heat/cooling energy meters
Ultrasonic heat/cooling energy meters WS.5..

WS.5..

Ultrasonic heat and cooling energy meters

The WSM5.. heat meters and WSN5.. heat and cooling energy meters acquire the volume flow statically based on the ultrasonic measuring principle. They are available as wall-mounting versions in different sizes. The meters excel in great measuring accuracy, a volume measuring section made of high-tech plastic, and wear resistance.
The consumption values acquired by the meter can be read out either on the meter itself or from a remote location. The meter transmits the current consumption value, the monthly values, the set day value and error messages to the respective data collector.
The processor can be removed (cable length 1.5 m). The display informs the user about the amount of energy consumed.

The WSM5.. and WSN5.. are used in residential or commercial buildings to acquire the amount of heat or cooling energy consumed.

The meters are supplied with Operating and Mounting Instructions in the following languages:
Bulgarian, Chinese, Croatian, Czech, Dutch, English, French, German, Greek, Hungarian, Italian, Norwegian, Polish, Russian, Slovakian, Slovenian, Spanish, and Turkish

Data sheet	N5372
Measurement accuracy	MID class 2
Standard	EN 1434
Voltage supply	Lithium battery
Operating voltage	Battery operation: 3.6 V
PN class	PN 16
Sensing element, temperature	Pt500
Sensor	PL Ø5.2x45 mm
Cable length, sensor	1.5 m
Due Date	01.01
Display	kWh
Temperature range electronic unit	0...180 °C
Temperature range volume measuring section	5...90 °C
Mounting location	Meter: return
	Sensor in the flow: selectable, directly/indirectly immersed
	Sensor in the return: integrated in the return, directly immersed

Range overview WS.5..

Nominal flow rate [m³/h]	Mounting length [mm]	Connect. thread	Communication	Battery life	Stock no.	Product no.
0.6	110	G ¾"		11 years	S55561-F133	**WSM506-0E**
0.6	110	G ¾"	M-bus	11 years	S55561-F194	**WSM506-BE**
0.6	110	G ¾"	M-bus RF	11 years	S55561-F246	**WSM506-FE**
1.5	110	G ¾"		11 years	S55561-F135	**WSM515-0E**
1.5	110	G ¾"	M-bus	11 years	S55561-F195	**WSM515-BE**
1.5	110	G ¾"	M-bus RF	11 years	S55561-F247	**WSM515-FE**
2.5	130	G 1"		11 years	S55561-F137	**WSM525-0E**
2.5	130	G 1"	M-bus	11 years	S55561-F196	**WSM525-BE**
2.5	130	G 1"	M-bus RF	11 years	S55561-F248	**WSM525-FE**
0.6	110	G ¾"	M-bus	11 years	S55561-F278	**WSN506-BE**
0.6	110	G ¾"	M-bus RF	11 years	S55561-F281	**WSN506-FE**
1.5	110	G ¾"	M-bus	11 years	S55561-F279	**WSN515-BE**
1.5	110	G ¾"	M-bus RF	11 years	S55561-F282	**WSN515-FE**
2.5	130	G 1"	M-bus	11 years	S55561-F280	**WSN525-BE**
2.5	130	G 1"	M-bus RF	11 years	S55561-F283	**WSN525-FE**

Meters
Ultrasonic heat/cooling energy meters
Ultrasonic heat/cooling energy meters WS.5..

1

Mounting sets

Product Title	Stock no.	Product no.
Mounting set 110 mm	LYU:WZT-MS110	**WZT-MS110**
Mounting set 130 mm	LYU:WZT-MS130	**WZT-MS130**

Ball valves

Product Title	Stock no.	Product no.
Ball valve R ½" with union nut G ¾"	LYU:WZT-K12-34	**WZT-K12-34**
Ball valve R ¾" with union nut G ¾"	LYU:WZT-K34-34	**WZT-K34-34**
Ball valve R ¾" with union nut G 1"	LYU:WZT-K34-1	**WZT-K34-1**
Ball valve R 1" with union nut G 1"	LYU:WZT-K1-1	**WZT-K1-1**
Ball valve Rp ½" for sensor DS M10x1 mm, length 27.5 mm or Ø 5.2x45 mm	S55563-F104	**WZT-K12**
Ball valve Rp ¾" for sensor DS M10x1 mm, length = 27.5 mm or Ø 5.2x45 mm	S55563-F120	**WZT-K34**
Ball valve Rp 1" for sensor DS M10x1 mm, length 27.5 mm or Ø 5.2x45 mm	S55563-F119	**WZT-K1**

Adapter and accessories

Product Title	Stock no.	Product no.
Installation kit G ¾", for threaded connection R ½"	S55563-F124	**WZM-E34**
Mounting kit G1", for threaded connection R ¾"	S55563-F123	**WZM-E1**
Adapter from 110 mm G ¾" to 130 mm G ¾", incl. gaskets	LYU:WZM-V130	**WZM-V130**
Adapter G 3/8 B" with threaded hole to install sensor DS M10x1 mm, incl. gasket G 3/8"	LYU:WZT-A38	**WZT-A38**
Adapter from 110 mm G ¾B" to 130 mm G 1B", incl. 4 gaskets	LYU:WZM-V130.G1	**WZM-V130.G1**
Adapter M10x1 mm x G 1/2 B" for sensor DS M10x1 mm / d=5.2 x 45 mm	S55563-F116	**WZT-A12**
Adapter from 110 mm G ¾B" to 165 mm G ¾B", incl. 1 gasket	LYU:WZM-VE165	**WZM-VE165**
Adapter G ¾ B" with threaded hole to install sensor DS M10x1 mm, incl. gasket G ¾"	LYU:WZT-A34	**WZT-A34**
Adapter from 110 mm G ¾B" to 190 mm G 1B", incl. gaskets	LYU:WZM-V190	**WZM-V190**
Protection pocket G ½ B", length 35 mm, made of brass, for temperature sensor Ø 5.2x45 mm	S55563-F103	**WZT-M35**
Protection pocket G ½B", brass, Ø 5.2x50 mm, for temperature sensor Ø 5.2x45 mm	LYU:WZT-M50	**WZT-M50**
Pocket G½"B, stainless steel, 5.2 × 37 mm, with seal	LYU:WZT-S43V	**WZT-S43V**
Adapter kit for sensor Ø 5.2x45 mm, incl. 2 O-rings	LYU:9956230	**9956230**
Welding sleeve with threaded hole for temperature sensor DS M10×1 mm	S55563-F121	**WZT-G10**
Spacer G ¾", length 110 mm, incl. 2 flat gaskets	LYU:WZM-G110	**WZM-G110**
Spacer G 1", length 130 mm, incl. 2 flat gaskets	LYU:WZM-G130	**WZM-G130**
Wall adapter, incl. 2 screws and 2 dowels	LYU:T23-WA10	**T23-WA10**
Self-lock seal with sealing wire	LYU:9956186001	**9956186001**
Flat seal for WS.5.., for thread G ¾", connection R ½"	LYU:9060951	**9060951**
Flat seal for WS.5.., for thread G 1", connection R ¾"	LYU:9060952	**9060952**

Programming accessories for ultrasonic meters

Product Title	Stock no.	Product no.
Optical read head with USB interface for PC	LYU:WZR-OP-USB	**WZR-OP-USB**
UltraAssist Profi, first license, CD with USB mini-dongle	LYU:WZX-UA-PEU-MINI	**WZX-UA-PEU-MINI**
UltraAssist Profi, second license, USB mini-dongle	LYU:WZX-UA-PFU-MINI	**WZX-UA-PFU-MINI**

New Product

1

Meters
Ultrasonic heat/cooling energy meters
Ultrasonic heat/cooling energy meters WS.6..

WS.6..

Ultrasonic heat and heat / cooling energy meters

The WSM6.. heat meters and WSN6.. heat and cooling energy meters acquire the volume flow statically based on the ultrasonic measuring principle. They are available as wall-mounting versions in different sizes. The meters excel in great measuring accuracy, a volume measuring section made of brass, and wear resistance.

The consumption values acquired by the meter can be read out either on the meter itself or from a remote location. The meter transmits the current consumption value, the monthly values, the set day value and error messages to the respective data collector.

The processor can be removed (cable length 1.5 m). The display informs the user about the amount of energy consumed.

The WSM6.. and WSB6.. are used in residential or commercial buildings to acquire the amount of heat or cooling energy consumed.

The meters are supplied with Operating and Mounting Instructions in the following languages: Bulgarian, Chinese, Croatian, Czech, Dutch, English, French, German, Greek, Hungarian, Italian, Norwegian, Polish, Russian, Slovakian, Slovenian, Spanish, and Turkish.

Data sheet	N5372
Type of Meter	Heat
	Cooling
Measurement accuracy	Heat: MID class 2
	Cold: EN 1434
Standard	EN 1434
Voltage supply	Lithium battery
Operating voltage	Battery operation: 3.6 V
PN class	PN 16
Sensing element, temperature	Pt500
Sensor	Type Ø 5.2 x 45 mm
Cable length, sensor	1.5 m
Due Date	01.01
Display	kWh
Mounting location	Meter: return
	Sensor in the flow: selectable, directly/indirectly immersed
	Sensor in the return: integrated in the return, directly immersed
Dimensions (W x H x D)	Electronic unit: 116 x 71 x 32 mm
	Flow measuring section: 110 x 43 x 64 mm (without cable) mm

Range overview WS.6..

Nominal flow rate [m³/h]	Mounting length [mm]	Con-nect. thread	Communi-cation	Battery life	Stock no.	Product no.
0.6	110	G ¾"	M-bus	11 years	S55561-F249	**WSM606-BE**
0.6	110	G ¾"	M-bus	11 years	S55561-F266	**WSN606-BE**
1.5	110	G ¾"	M-bus	11 years	S55561-F250	**WSM615-BE**
1.5	110	G ¾"	M-bus	11 years	S55561-F267	**WSN615-BE**
2.5	130	G 1"	M-bus	11 years	S55561-F251	**WSM625-BE**
2.5	130	G 1"	M-bus	11 years	S55561-F268	**WSN625-BE**

1

Meters
Ultrasonic heat/cooling energy meters
Ultrasonic heat/cooling energy meters WS.6..

Mounting sets

Product Title	Stock no.	Product no.
Installation kit G ¾", for threaded connection R ½"	S55563-F124	**WZM-E34**
Mounting kit G1", for threaded connection R ¾"	S55563-F123	**WZM-E1**
Adapter from 110 mm G ¾" to 130 mm G ¾", incl. gaskets	LYU:WZM-V130	**WZM-V130**
Adapter from 110 mm G ¾B" to 130 mm G 1B", incl. 4 gaskets	LYU:WZM-V130.G1	**WZM-V130.G1**
Adapter from 110 mm G ¾B" to 165 mm G ¾B", incl. 1 gasket	LYU:WZM-VE165	**WZM-VE165**
Adapter from 110 mm G ¾B" to 190 mm G 1B", incl. gaskets	LYU:WZM-V190	**WZM-V190**
Mounting set 110 mm	LYU:WZT-MS110	**WZT-MS110**
Mounting set 130 mm	LYU:WZT-MS130	**WZT-MS130**

Ball valves

Product Title	Stock no.	Product no.
Ball valve R ½" with union nut G ¾"	LYU:WZT-K12-34	**WZT-K12-34**
Ball valve R ¾" with union nut G ¾"	LYU:WZT-K34-34	**WZT-K34-34**
Ball valve R ¾" with union nut G 1"	LYU:WZT-K34-1	**WZT-K34-1**
Ball valve R 1" with union nut G 1"	LYU:WZT-K1-1	**WZT-K1-1**
Ball valve Rp ½" for sensor DS M10x1 mm, length 27.5 mm or Ø 5.2x45 mm	S55563-F104	**WZT-K12**
Ball valve Rp ¾" for sensor DS M10x1 mm, length = 27.5 mm or Ø 5.2x45 mm	S55563-F120	**WZT-K34**
Ball valve Rp 1" for sensor DS M10x1 mm, length 27.5 mm or Ø 5.2x45 mm	S55563-F119	**WZT-K1**

Adapter and accessories

Product Title	Stock no.	Product no.
Adapter G 3/8 B" with threaded hole to install sensor DS M10x1 mm, incl. gasket G 3/8"	LYU:WZT-A38	**WZT-A38**
Adapter M10x1 mm x G 1/2 B" for sensor DS M10x1 mm / d=5.2 x 45 mm	S55563-F116	**WZT-A12**
Adapter G ¾ B" with threaded hole to install sensor DS M10x1 mm, incl. gasket G ¾"	LYU:WZT-A34	**WZT-A34**
Protection pocket G ½ B", length 35 mm, made of brass, for temperature sensor Ø 5.2x45 mm	S55563-F103	**WZT-M35**
Protection pocket G ½B", brass, Ø 5.2x50 mm, for temperature sensor Ø 5.2x45 mm	LYU:WZT-M50	**WZT-M50**
Pocket G½"B, stainless steel, 5.2 × 37 mm, with seal	LYU:WZT-S43V	**WZT-S43V**
Adapter set brass for sensor 5.2 x 45 mm	LYU:WZT-FA	**WZT-FA**
Adapter kit for sensor Ø 5.2x45 mm, incl. 2 O-rings	LYU:9956230	**9956230**
Welding sleeve with threaded hole for temperature sensor DS M10×1 mm	S55563-F121	**WZT-G10**
Spacer G ¾", length 110 mm, incl. 2 flat gaskets	LYU:WZM-G110	**WZM-G110**
Spacer G 1", length 130 mm, incl. 2 flat gaskets	LYU:WZM-G130	**WZM-G130**
Sealing disk G ¾", for threaded connection R ½"	LYU:9060944002	**9060944002**
Sealing disk G 1", for threaded connection R ¾"	LYU:9060944003	**9060944003**
Wall adapter, incl. 2 screws and 2 dowels	LYU:T23-WA10	**T23-WA10**
Self-lock seal with sealing wire	LYU:9956186001	**9956186001**

Programming accessories for ultrasonic meters

Product Title	Stock no.	Product no.
Optical read head with USB interface for PC	LYU:WZR-OP-USB	**WZR-OP-USB**
UltraAssist Profi, first license, CD with USB mini-dongle	LYU:WZX-UA-PEU-MINI	**WZX-UA-PEU-MINI**
UltraAssist Profi, second license, USB mini-dongle	LYU:WZX-UA-PFU-MINI	**WZX-UA-PFU-MINI**

New Product

1

Meters
Ultrasonic heat/cooling energy meters
Ultrasonic heat/cooling energy meters WS.8..

WS.8..

Ultrasonic heat and heat/cooling energy meter

The WSM8.. is a measuring instrument used for the physically correct acquisition of energy consumption. The device consists of a flow measuring section made of brass, two temperature sensors, and an electronic unit which calculates the energy consumption from the flow and the temperature differential. The processor unit can be equipped with different sensors, up to four batteries and a communication module. In addition up to two impulse water meters can be readout.
The consumption values acquired by the meter can be read out either on the meter itself or from a remote location. The meter transmits the current consumption value, the monthly values, the set day value and error messages to the respective data collector. The processor can be removed (cable length 1.5 m). The display informs the user about the amount of energy consumed.

The Mounting and Operating Instructions are supplied in 18 languages: Bulgarian, Chinese, Croatian, Czech, Dutch, English, French, German, Greek, Hungarian, Italian, Norwegian, Polish, Russian, Slovakian, Slovenian, Spanish and Turkish.

Data sheet	A6V11905989
Measurement accuracy	Class II
Standard	EN 1434
Voltage supply	Lithium battery
Operating voltage	3,6 V
PN class	PN 16
Sensing element, temperature	Pt500
Cable length, sensor	1.5 m
Due Date	01.01
Mounting location	Meter mounting: In return
	Sensor mounting: Return sensor, integrated in the flow measuring section
Dimensions (W x H x D)	105 x 138 x 44 mm

Range overview WS.8..

Nominal flow rate [m³/h]	Mounting length [mm]	Con- nect. thread	Communi- cation	Battery life	Stock no.	Product no.
0.6	110	G ¾"	M-bus	6 years	S55561-F269	**WSM805-FBBAE3A**
0.6	110	G ¾"	M-bus	6 years	S55561-F272	**WSM805-FHBAE3A**
1.5	110	G ¾"	M-bus	6 years	S55561-F270	**WSM821-FBBAE3A**
1.5	110	G ¾"	M-bus	6 years	S55561-F273	**WSM821-FHBAE3A**
2.5	130	G 1"	M-bus	6 years	S55561-F271	**WSM836-FBBAE3A**
2.5	130	G 1"	M-bus	6 years	S55561-F274	**WSM836-FHBAE3A**
0.6	110	G ¾"	M-bus	11 years	S55561-F275	**WSN805-FBBBF3A**
1.5	110	G ¾"	M-bus	11 years	S55561-F276	**WSN821-FBBBF3A**
2.5	130	G 1"	M-bus	11 years	S55561-F277	**WSN836-FBBBF3A**

The meater can be supplied via M-bus. In this case the battery serves as a backup battery.

Power packs

Product Title	Stock no.	Product no.
Battery set, 1 battery	LYU:T45-BA-1	**T45-BA-1**
Battery set, set of 2 batteries	LYU:T45-BA-2	**T45-BA-2**
Battery set, set of 3 batteries	LYU:T45-BA-3	**T45-BA-3**
Battery set, set of 4 batteries	LYU:T45-BA-4	**T45-BA-4**

Communication modules

Product Title	Stock no.	Product no.
M-bus wired module	LYU:T45-MBUS	**T45-MBUS**
Pulse module	LYU:T45-PULSE	**T45-PULSE**
Radio-module, 868 MHz	LYU:T45-RADIO	**T45-RADIO**
Pulse input set for heat meters	LYU:T45-PULSE-IN	**T45-PULSE-IN**

New Product

Meters
Ultrasonic heat/cooling energy meters
Ultrasonic heat/cooling energy meters WS.8..

1

Mounting sets

Product Title	Stock no.	Product no.
Installation kit G ¾", for threaded connection R ½"	S55563-F124	**WZM-E34**
Mounting kit G1", for threaded connection R ¾"	S55563-F123	**WZM-E1**
Adapter from 110 mm G ¾" to 130 mm G ¾", incl. gaskets	LYU:WZM-V130	**WZM-V130**
Adapter from 110 mm G ¾B" to 130 mm G 1B", incl. 4 gaskets	LYU:WZM-V130.G1	**WZM-V130.G1**
Adapter from 110 mm G ¾B" to 165 mm G ¾B", incl. 1 gasket	LYU:WZM-VE165	**WZM-VE165**
Adapter from 110 mm G ¾B" to 190 mm G 1B", incl. gaskets	LYU:WZM-V190	**WZM-V190**
Mounting set 110 mm	LYU:WZT-MS110	**WZT-MS110**
Mounting set 130 mm	LYU:WZT-MS130	**WZT-MS130**

Spacers and sealing disks

Product Title	Stock no.	Product no.
Spacer G ¾", length 110 mm, incl. 2 flat gaskets	LYU:WZM-G110	**WZM-G110**
Spacer G 1", length 130 mm, incl. 2 flat gaskets	LYU:WZM-G130	**WZM-G130**
Sealing disk G ¾", for threaded connection R ½"	LYU:9060944002	**9060944002**
Sealing disk G 1", for threaded connection R ¾"	LYU:9060944003	**9060944003**

Ball valves

Product Title	Stock no.	Product no.
Ball valve R ½" with union nut G ¾"	LYU:WZT-K12-34	**WZT-K12-34**
Ball valve R ¾" with union nut G ¾"	LYU:WZT-K34-34	**WZT-K34-34**
Ball valve R ¾" with union nut G 1"	LYU:WZT-K34-1	**WZT-K34-1**
Ball valve R 1" with union nut G 1"	LYU:WZT-K1-1	**WZT-K1-1**
Ball valve Rp ½" for sensor DS M10x1 mm, length 27.5 mm or Ø 5.2x45 mm	S55563-F104	**WZT-K12**
Ball valve Rp ¾" for sensor DS M10x1 mm, length = 27.5 mm or Ø 5.2x45 mm	S55563-F120	**WZT-K34**
Ball valve Rp 1" for sensor DS M10x1 mm, length 27.5 mm or Ø 5.2x45 mm	S55563-F119	**WZT-K1**

Accessories

Product Title	Stock no.	Product no.
Adapter G 3/8 B" with threaded hole to install sensor DS M10x1 mm, incl. gasket G 3/8"	LYU:WZT-A38	**WZT-A38**
Mounting set for sensor Ø 5.2x45 mm	LYU: WZT-FA	**WZT-FA**
Mounting plate for top hat rail	LYU:WZU-MH	**WZU-MH**
Plate for wall mounting	LYU:WZU-WH	**WZU-WH**
Adapter M10x1 mm x G 1/2 B" for sensor DS M10x1 mm / d=5.2 x 45 mm	S55563-F116	**WZT-A12**
Adapter G ¾ B" with threaded hole to install sensor DS M10x1 mm, incl. gasket G ¾"	LYU:WZT-A34	**WZT-A34**
Protection pocket G ½ B", length 35 mm, made of brass, for temperature sensor Ø 5.2x45 mm	S55563-F103	**WZT-M35**
Protection pocket G ½B", brass, Ø 5.2x50 mm, for temperature sensor Ø 5.2x45 mm	LYU:WZT-M50	**WZT-M50**
Pocket G½"B, stainless steel, 5.2 × 37 mm, with seal	LYU:WZT-S43V	**WZT-S43V**
Adapter kit for sensor Ø 5.2x45 mm, incl. 2 O-rings	LYU:9956230	**9956230**
Sealing disk Ø 8.6/5.3, size 1 mm, for temperature sensor DS M10x1 mm	LYU:9060944001	**9060944001**
Sealing disk Ø 8.6/5.3, size 1.5 mm, for temperature sensor DS M10x1 mm made of copper	LYU:9060950	**9060950**
Welding sleeve with threaded hole for temperature sensor DS M10×1 mm	S55563-F121	**WZT-G10**
Self-lock seal with sealing wire	LYU:9956186001	**9956186001**
Mounting plate for wall mounting	LYU:WZU-WA	**WZU-WA**

Temperature sensors (pairs)

Product Title	Stock no.	Product no.
Pair of temperature sensors Pt500, DS M10x1 mm, sensor length 27.5 mm, cable length 1.5 m	LYU:WZU5-2815	**WZU5-2815**
Pair of temperature sensors Pt500, DS M10x1 mm, sensor length 27.5 mm, cable length 2.5 m	LYU:WZU5-2825	**WZU5-2825**
Pair of temperature sensors Pt500, DS M10x1 mm, sensor length 38 mm, cable length 1.5 m	LYU:WZU5-3815	**WZU5-3815**

New Product

1

Meters
Ultrasonic heat/cooling energy meters
Ultrasonic heat/cooling energy meters WS.8..

Temperature sensors (pairs)

Product Title	Stock no.	Product no.
Pair of temperature sensors Pt500, DS M10x1 mm, sensor length 38 mm, cable length 2.5 m	LYU:WZU5-3825	**WZU5-3825**
Pair of temperature sensors Pt500, PS Ø5.2x45 mm, cable length 1.5 m	LYU:WZU5-4515	**WZU5-4515**
Pair of temperature sensors Pt500, PS Ø 5.2x45 mm, cable length 5 m	LYU:WZU5-4550	**WZU5-4550**

Programming accessories for ultrasonic meters

Product Title	Stock no.	Product no.
Optical read head with USB interface for PC	LYU:WZR-OP-USB	**WZR-OP-USB**
UltraAssist Profi, first license, CD with USB mini-dongle	LYU:WZX-UA-PEU-MINI	**WZX-UA-PEU-MINI**
UltraAssist Profi, second license, USB mini-dongle	LYU:WZX-UA-PFU-MINI	**WZX-UA-PFU-MINI**

1

Meters
Ultrasonic heat/cooling energy meters
Ultrasonic heat/cooling energy meters UH50..

Ultrasonic heat and heating/cooling energy meters

UH50_0.6..2.5 m3/h

The UH50-A.. heat meter and the UH50-C.. heat/combi meter acquire the volume flow statically based on the ultrasonic measuring principle. They are available as wall-mounting versions in different sizes. The meters excel in great measuring accuracy, wear resistance, and long-term stability. The UH50.. transmits the current consumption value, the monthly values, the set day value, and error messages to the respective data collector.
The processor unit can be equipped with different sensors, different power supplies, and 2 communication modules.

The display informs the user about the amount of energy consumed.

The ultrasonic meters are used in residential or commercial buildings to acquire the amount of heat or heat/cooling energy consumed.

The standard meter is supplied without power supply and without communication (see accessories).

The meters are supplied with Operating and Mounting Instructions in the following languages:
Bulgarian, Chinese, Croatian, Czech, Dutch, English, French, German, Greek, Hungarian, Italian, Norwegian, Polish, Russian, Slovakian, Slovenian, Spanish, and Turkish

Data sheet	N5324
Measurement accuracy	Heat: MID class 2
	Cold: EN 1434
Standard	EN 1434
Voltage supply	Without, see accessories
Due Date	01.01
Temperature response threshold	Heat: 0.2 K
	Cold: 0.2 K
Measuring range, temperature	Processor unit: 0...180 °C
	Flow measuring section: 5...130 °C
Sensing element, temperature	Pt500
Sensor	Sensor type: DS 10x1 mm, length 27.5 mm
Communication	Without, see accessories
Mounting location	Meter: Return

Range overview UH50.. 0.6..2.5 m3/h

Nominal flow rate [m³/h]	Mounting length [mm]	PN class	Cable length, sensor [m]	Display	Con- nect. thread	Type of Meter	Stock no.	Product no.
0.6	110	PN 16		kWh	G ¾"	Heat	S55561-F112	**UH50-A05-00**
0.6	110	PN 16	1.5	kWh	G ¾"	Heat Cooling	S55561-F122	**UH50-C05-00**
0.6	110	PN 25	1.5	kWh	G ¾"	Heat Cooling	S55561-F252	**UH50-C06-00**
1.5	110	PN 16	1.5	kWh	G ¾"	Heat	S55561-F113	**UH50-A21-00**
1.5	110	PN 16	1.5	kWh	G ¾"	Heat Cooling	S55561-F123	**UH50-C21-00**
1.5	110	PN 25	1.5	kWh	G ¾"	Heat Cooling	S55561-F253	**UH50-C22-00**
1.5	190	PN 16	1.5	kWh	G 1"	Heat	S55561-F180	**UH50-A23-00**
1.5	190	PN 25	1.5	kWh	G 1"	Heat Cooling	S55561-F254	**UH50-C25-00**
2.5	130	PN 16	1.5	kWh	G 1"	Heat	S55561-F114	**UH50-A36-00**
2.5	130	PN 16	1.5	kWh	G 1"	Heat Cooling	S55561-F124	**UH50-C36-00**
2.5	130	PN 25	1.5	kWh	G 1"	Heat Cooling	S55561-F255	**UH50-C37-00**
2.5	190	PN 16	1.5	kWh	G 1"	Heat	S55561-F181	**UH50-A38-00**
2.5	190	PN 25	1.5	kWh	G 1"	Heat Cooling	S55561-F256	**UH50-C40-00**

1

Meters
Ultrasonic heat/cooling energy meters
Ultrasonic heat/cooling energy meters UH50..

Accessories see datasheet: N5324

UH50-C06-00, UH50-C22-00, UH50-C25-00, UH50-C37-00, UH50-C40-00
Design of processor unit: Split unit with ready wired control line of 1.5 m.
Connection of sensor: The sensor can be replaced; return sensor installation in measuring tube optional
Sensors: DS M10x1 mm, lenght = 27.5 mm, cable length = 1.5 m
Display: kWh

Other types:
Design of processor unit: Split unit with ready wired control line of 1.5 m.
Connection of sensor: The sensor can be replaced; the return sensor is integrated in the volume measuring section (internally, directly immersed).
Sensors: DS M10x1 mm, lenght = 27.5 mm, cable length = 1.5 m
Display: kWh

1

Meters
Ultrasonic heat/cooling energy meters
Ultrasonic heat/cooling energy meters UH50..

Ultrasonic heat and heating/cooling energy meters 3.5...6 m3/h

UH50_3.5..6 m3/h

The UH50-A.. heat meter and the UH50-C.. heat/combi meter acquire the volume flow statically based on the ultrasonic measuring principle. They are available as wall-mounting versions in different sizes. The meters excel in great measuring accuracy, wear resistance, and long-term stability. The UH50.. transmits the current consumption value, the monthly values, the set day value, and error messages to the respective data collector.
The processor unit can be equipped with different sensors, different power supplies, and 2 communication modules.

The display informs the user about the amount of energy consumed.

The ultrasonic meters are used in residential or commercial buildings to acquire the amount of heat or heat/cooling energy consumed.

The standard meter is supplied without power supply and without communication (see accessories).

The meters are supplied with Operating and Mounting Instructions in the following languages:
Bulgarian, Chinese, Croatian, Czech, Dutch, English, French, German, Greek, Hungarian, Italian, Norwegian, Polish, Russian, Slovakian, Slovenian, Spanish, and Turkish

Data sheet	N5324
Measurement accuracy	Heat: MID class 2
	Cold: EN 1434
Standard	EN 1434
Voltage supply	Without, see accessories
Due Date	01.01
Measuring range, temperature	Processor unit: 0...180 °C
	Flow measuring section: 5...130 °C
Temperature response threshold	Heat: 0.2 K
	Cold: 0.2 K
Sensing element, temperature	Pt500
Sensor	Sensor type: DS 10x1 mm, length 38 mm
Communication	Without, see accessories
Mounting location	Meter: Return

Range overview UH50.. 3.5..6 m3/h

Nominal flow rate [m³/h]	Mounting length [mm]	PN class	Cable length, sensor [m]	Display	Con-nect. thread	DN	Type of Meter	Stock no.	Product no.
3.5	260	PN 16	1.5	kWh	G 1¼"		Heat	S55561-F115	**UH50-A45-00**
3.5	260	PN 16	1.5	kWh	G 1¼"		Heat Cooling	S55561-F125	**UH50-C45-00**
3.5	260	PN 25	2.5	kWh	G 1¼"		Heat Cooling	S55561-F257	**UH50-C47-00**
6	260	PN 16	1.5	kWh	G 1¼"		Heat	S55561-F116	**UH50-A50-00**
6	260	PN 16	1.5	kWh	G 1¼"		Heat Cooling	S55561-F126	**UH50-C50-00**
6	260	PN 25	1.5	kWh		25	Heat Cooling	S55561-F258	**UH50-C52-00**

1

Meters
Ultrasonic heat/cooling energy meters
Ultrasonic heat/cooling energy meters UH50..

Accessories see datasheet: N5324

UH50-C47-00
Design of processor unit: Split unit with ready wired control line of 1.5 m.
Connection of sensor: The sensor can be replaced; return sensor installation in measuring tube optional
Sensors: DS M10x1 mm, lenght = 38 mm, cable length = 2.5 m
Display: kWh

UH50-C52-00
Design of processor unit: Split unit with ready wired control line of 1.5 m.
Connection of sensor: The sensor can be replaced; the return sensor is not integrated in the volume measuring section.
Sensors: Ø 5.2x45 mm, cable length = 1.5 m
Display: kWh

Other types:
Design of processor unit: Split unit with ready wired control line of 1.5 m.
Connection of sensor: The sensor can be replaced; the return sensor is integrated in the volume measuring section (internally, directly immersed).
Sensors: DS M10x1 mm, lenght = 38 mm, cable length = 1.5 m
Display: kWh

Meters
Ultrasonic heat/cooling energy meters
Ultrasonic heat/cooling energy meters UH50..

1

Ultrasonic heat and heating/cooling energy meters 10 m3/h   **UH50_10 m3/h**

The UH50-A.. heat meter and the UH50-C.. heat/combi meter acquire the volume flow statically based on the ultrasonic measuring principle. They are available as wall-mounting versions in different sizes. The meters excel in great measuring accuracy, wear resistance, and long-term stability. The UH50.. transmits the current consumption value, the monthly values, the set day value, and error messages to the respective data collector.
The processor unit can be equipped with different sensors, different power supplies, and 2 communication modules.

The display informs the user about the amount of energy consumed.

The ultrasonic meters are used in residential or commercial buildings to acquire the amount of heat or heat/cooling energy consumed.

The standard meter is supplied without power supply and without communication (see accessories).

The meters are supplied with Operating and Mounting Instructions in the following languages:
Bulgarian, Chinese, Croatian, Czech, Dutch, English, French, German, Greek, Hungarian, Italian, Norwegian, Polish, Russian, Slovakian, Slovenian, Spanish, and Turkish

Data sheet	N5324
Measurement accuracy	Heat: MID class 2
	Cold: EN 1434
Standard	EN 1434
Voltage supply	Without, see accessories
Due Date	01.01
Measuring range, temperature	Processor unit: 0...180 °C
	Flow measuring section: 5...130 °C
Temperature response threshold	Heat: 0.2 K
	Cold: 0.2 K
Sensing element, temperature	Pt500
Sensor	Sensor type: d = 6 mm, length 100 mm
Communication	Without, see accessories
Mounting location	Meter: Return

Range overview UH50.. 10 m3/h

Nominal flow rate [m³/h]	Mounting length [mm]	PN class	Display	Con-nect. thread	DN	Type of Meter	Stock no.	Product no.
10	300	PN 25	kWh		40	Heat	S55561-F117	**UH50-A61-00**
10	300	PN 25	kWh		40	Heat Cooling	S55561-F127	**UH50-C61-00**
10	300	PN 16	kWh	G 2"		Heat Cooling	S55561-F259	**UH50-C60-00**

Accessories see datasheet: N5324

UH50-C60-00
Design of processor unit: Split unit with ready wired control line of 1.5 m.
Connection of sensor: The sensor can be replaced; the return sensor is not integrated in the volume measuring section.
Sensors: Ø 6 mm, lenght = 100 mm, cable length = 2 m
Display: kWh

UH50-A61-00, UH50-C61-00
Design of processor unit: Split unit with ready wired control line of 1.5 m.
Connection of sensor: The sensor can be replaced; the return sensor is not integrated in the volume measuring section.
Sensors: Ø 6 mm, lenght = 100 mm, cable length = 5 m
Display: kWh

1

Meters
Ultrasonic heat/cooling energy meters
Ultrasonic heat/cooling energy meters UH50..

UH50_15..25 m3/h	**Ultrasonic heat and heating/cooling energy meters 15...25 m3/h**

The UH50-A.. heat meter and the UH50-C.. heat/combi meter acquire the volume flow statically based on the ultrasonic measuring principle. They are available as wall-mounting versions in different sizes. The meters excel in great measuring accuracy, wear resistance, and long-term stability. The UH50.. transmits the current consumption value, the monthly values, the set day value, and error messages to the respective data collector.
The processor unit can be equipped with different sensors, different power supplies, and 2 communication modules.

The display informs the user about the amount of energy consumed.

The ultrasonic meters are used in residential or commercial buildings to acquire the amount of heat or heat/cooling energy consumed.

The standard meter is supplied without power supply and without communication (see accessories).

The meters are supplied with Operating and Mounting Instructions in the following languages:
Bulgarian, Chinese, Croatian, Czech, Dutch, English, French, German, Greek, Hungarian, Italian, Norwegian, Polish, Russian, Slovakian, Slovenian, Spanish, and Turkish

Data sheet	N5324
Measurement accuracy	Heat: MID class 2
	Cold: EN 1434
Standard	EN 1434
Voltage supply	Without, see accessories
Due Date	01.01
Measuring range, temperature	Processor unit: 0...180 °C
	Flow measuring section: 5...130 °C
Temperature response threshold	Heat: 0.2 K
	Cold: 0.2 K
Sensing element, temperature	Pt500
Sensor	Sensor type: d = 6 mm, length 100 mm
Communication	Without, see accessories
Mounting location	Meter: Return

Range overview UH50.. 15..25 m3/h

Nominal flow rate [m³/h]	Mounting length [mm]	PN class	Cable length, sensor [m]	Display	DN	Type of Meter	Stock no.	Product no.
15	270	PN 25	5	MWh	50	Heat	S55561-F118	**UH50-A65-00**
15	270	PN 25	5	MWh	50	Heat Cooling	S55561-F128	**UH50-C65-00**
25	300	PN 25	5	MWh	65	Heat	S55561-F119	**UH50-A70-00**
25	300	PN 25	5	MWh	65	Heat Cooling	S55561-F129	**UH50-C70-00**

Accessories see datasheet: N5324

Design of processor unit: Split unit with ready wired control line of 3 m.
Connection of sensor: The sensor can be replaced; the return sensor is not integrated in the volume measuring section.
Sensors: Ø 6 mm, lenght = 100 mm, cable length = 5 m
Display: MWh

1

Meters
Ultrasonic heat/cooling energy meters
Ultrasonic heat/cooling energy meters UH50..

Ultrasonic heat and heating/cooling energy meters 40...60 m3/h

UH50_40..60 m3/h

The UH50-A.. heat meter and the UH50-C.. heat/combi meter acquire the volume flow statically based on the ultrasonic measuring principle. They are available as wall-mounting versions in different sizes. The meters excel in great measuring accuracy, wear resistance, and long-term stability. The UH50.. transmits the current consumption value, the monthly values, the set day value, and error messages to the respective data collector.
The processor unit can be equipped with different sensors, different power supplies, and 2 communication modules.

The display informs the user about the amount of energy consumed.

The ultrasonic meters are used in residential or commercial buildings to acquire the amount of heat or heat/cooling energy consumed.

The standard meter is supplied without power supply and without communication (see accessories).

The meters are supplied with Operating and Mounting Instructions in the following languages:
Bulgarian, Chinese, Croatian, Czech, Dutch, English, French, German, Greek, Hungarian, Italian, Norwegian, Polish, Russian, Slovakian, Slovenian, Spanish, and Turkish

Data sheet	N5324
Measurement accuracy	Heat: MID class 2
	Cold: EN 1434
Standard	EN 1434
Voltage supply	Without, see accessories
Due Date	01.01
Measuring range, temperature	Processor unit: 0...180 °C
	Flow measuring section: 5...130 °C
Temperature response threshold	Heat: 0.2 K
	Cold: 0.2 K
Sensing element, temperature	Pt500
Sensor	Sensor type: d=6 mm, lenght 150 mm
Communication	Without, see accessories
Mounting location	Meter: Return

Range overview UH50.. 40..60 m3/h

Nominal flow rate [m³/h]	Mounting length [mm]	PN class	Cable length, sensor [m]	Display	DN	Type of Meter	Stock no.	Product no.
40	300	PN 25	5	MWh	80	Heat	S55561-F120	**UH50-A74-00**
40	300	PN 25	5	MWh	80	Heat Cooling	S55561-F130	**UH50-C74-00**
60	360	PN 25	5	MWh	100	Heat	S55561-F121	**UH50-A83-00**
60	360	PN 25	5	MWh	100	Heat Cooling	S55561-F131	**UH50-C83-00**

Accessories see datasheet: N5324

Design of processor unit: Split unit with ready wired control line of 3 m.
Connection of sensor: The sensor can be replaced; the return sensor is not integrated in the volume measuring section.
Sensors: Ø 6 mm, lenght = 150 mm, cable length = 5 m
Display: MWh

1

Meters
Ultrasonic heat/cooling energy meters
Ultrasonic heat/cooling energy meters UH50..

Communication modules

Product Title	Stock no.	Product no.
Pulse module with 2 channels	S55563-F107	**WZU-P2**
M-bus module for heat and heat/cooling energy meters, generation 4	S55563-F110	**WZU-MB G4**
M-bus module with 2 pulse inputs for heat and heat/cooling energy meters, generation 4	S55563-F108	**WZU-MI**
GPRS module with external antenna (magnetic attachment) and power pack 110…230 V	LYU:WZU-GPRS	**WZU-GPRS**
GPRS module with external antenna (for screw mounting) and power pack 110…230 V	LYU:WZU-GPRS-ANT	**WZU-GPRS-ANT**
Analog module	LYU:WZU-AM	**WZU-AM**
Power pack for WZU-AM, WZU-485E-BAC and WZU-485E-MOD	LYU:WZU-NE24	**WZU-NE24**
Moduł Modbus RTU RS485	LYU:WZU-485E-MOD	**WZU-485E-MOD**
BACnet module RS-485 (MS/TP)	LYU:WZU-485E-BAC	**WZU-485E-BAC**
LoRaWAN communication module	LYU:WZU-LR	**WZU-LR**
LoRaWAN comm. module, ext. antenna	LYU:WZU-LR-EXT	**WZU-LR-EXT**
NB-IoT module	LYU:NB-IoT-EXT	**NB-IoT-EXT**
Antenna with magnetic foot	LYU:WZU-ANT-MAG	**WZU-ANT-MAG**
Wall mounted antenna	LYU:WZU-ANT-WALL	**WZU-ANT-Wall**

Power packs

Product Title	Stock no.	Product no.
Power supply AC 110/230 V for UH50..	S55563-F154	**WZU-AC110/230-15**
Power supply AC 110/230 V for UH50..	LYU:WZU-AC110/230-50	**WZU-AC110/230-50**
Power pack AC/DC 24 V	S55563-F156	**WZU-ACDC24-50**
Standard battery (2x AA) for 6 years, complete with fastener	S55563-F114	**WZU-BA+GUM**
Universal battery (D-cell), life 6 and 16 years respectively	S55563-F113	**WZU-BDS**

Temperature sensors (pairs)

Product Title	Stock no.	Product no.
Pair of temperature sensors Pt500, DS M10x1 mm, sensor length 27.5 mm, cable length 1.5 m	LYU:WZU5-2815	**WZU5-2815**
Pair of temperature sensors Pt500, DS M10x1 mm, sensor length 27.5 mm, cable length 2.5 m	LYU:WZU5-2825	**WZU5-2825**
Pair of temperature sensors Pt500, DS M10x1 mm, sensor length 38 mm, cable length 1.5 m	LYU:WZU5-3815	**WZU5-3815**
Pair of temperature sensors Pt500, DS M10x1 mm, sensor length 38 mm, cable length 2.5 m	LYU:WZU5-3825	**WZU5-3825**
Pair of temperature sensors Pt500, PS Ø5.2x45 mm, cable length 1.5 m	LYU:WZU5-4515	**WZU5-4515**
Pair of temperature sensors Pt500, PS Ø 5.2x45 mm, cable length 5 m	LYU:WZU5-4550	**WZU5-4550**
Pair of temperature sensors Pt500, PL Ø 6x100 mm, cable length 2 m	LYU:WZU5-1020	**WZU5-1020**
Pair of temperature sensors Pt500, PL Ø 6x100 mm, cable length 5 m	LYU:WZU5-1050	**WZU5-1050**
Pair of temperature sensors Pt500, PL Ø 6x150 mm, cable length 2 m	LYU:WZU5-1520	**WZU5-1520**
Pair of temperature sensors Pt500, PL Ø 6x150 mm, cable length 5 m	LYU:WZU5-1550	**WZU5-1550**

Fittings

Product Title	Stock no.	Product no.
Installation kit G ¾", for threaded connection R ½"	S55563-F124	**WZM-E34**
Mounting kit G1", for threaded connection R ¾"	S55563-F123	**WZM-E1**
Mounting kit G2 × R 1½"	LYU:WZM-E2.1	**WZM-E2.1**
Installation kit G1 1/4 x R1"	S55563-F125	**WZM-E54**
Adapter from 110 mm G ¾" to 130 mm G ¾", incl. gaskets	LYU:WZM-V130	**WZM-V130**
Adapter from 110 mm G ¾B" to 130 mm G 1B", incl. 4 gaskets	LYU:WZM-V130.G1	**WZM-V130.G1**
Adapter from 110 mm G ¾B" to 165 mm G ¾B", incl. 1 gasket	LYU:WZM-VE165	**WZM-VE165**
Adapter from 110 mm G ¾B" to 190 mm G 1B", incl. gaskets	LYU:WZM-V190	**WZM-V190**
Mounting set 110 mm	LYU:WZT-MS110	**WZT-MS110**
Mounting set 130 mm	LYU:WZT-MS130	**WZT-MS130**

New Product

1

Meters
Ultrasonic heat/cooling energy meters
Ultrasonic heat/cooling energy meters UH50..

Spacers and sealing disks

Product Title	Stock no.	Product no.
Spacer for heat meter DN20, length 190 mm, PN16, incl. 2 flat gaskets	BPZ:WZM-F190	**WZM-F190**
Spacer for heat meter DN25, length 260 mm, PN16, incl. 2 flat gaskets	BPZ:WZM-F260	**WZM-F260**
Sealing disk G 2", for threaded connection R 1½"	LYU:9060944006	**9060944006**
Sealing disk for DN 25 flange	LYU:9060944022	**9060944022**
Spacer DN 50, length 270 mm, PN16, incl. 2 flat gaskets	LYU:WZM-F270	**WZM-F270**
Spacer DN 40, length 300 mm, PN16, incl. 2 flat gaskets	LYU:WZM-F300	**WZM-F300**
Spacer DN 65, length 300 mm, PN16, incl. 2 flat gaskets	LYU:WZM-F300.65	**WZM-F300.65**
Spacer DN 80, length 300 mm, PN16, incl. 2 flat gaskets	LYU:WZM-F300.80	**WZM-F300.80**
Spacer DN 100, length 360 mm, PN25, incl. 2 flat gaskets	LYU:WZM-F360.100-25	**WZM-F360.100-25**
Spacer G ¾", length 110 mm, incl. 2 flat gaskets	LYU:WZM-G110	**WZM-G110**
Spacer G 1", length 130 mm, incl. 2 flat gaskets	LYU:WZM-G130	**WZM-G130**
Spacer G 1", length 190 mm, incl. 2 flat gaskets	LYU:WZM-G190	**WZM-G190**
Spacer G 1¼", length 260 mm, incl. 2 flat gaskets	LYU:WZM-G260	**WZM-G260**
Spacer G 2", length 300 mm, incl. 2 gaskets	LYU:WZM-G300.1	**WZM-G300.1**
Ball valve Rp 1¼" with union nut G 1¼"	LYU:WZT-K54-54	**WZT-K54-54**
Ball valve Rp 2" with union nut G 2"	LYU:WZT-K2-2	**WZT-K2-2**
Sealing disk G ¾", for threaded connection R ½"	LYU:9060944002	**9060944002**
Sealing disk G 1", for threaded connection R ¾"	LYU:9060944003	**9060944003**
Sealing disk G 1¼", for threaded connection R 1"	LYU:9060944004	**9060944004**
Sealing disk for flange DN 40	LYU:9060944024	**9060944024**
Sealing disk for flange DN 50	LYU:9060944025	**9060944025**
Sealing disk for flange DN 65	LYU:9060944026	**9060944026**
Sealing disk for flange DN 80	LYU:9060944027	**9060944027**
Sealing disk for flange DN 100	LYU:9060944028	**9060944028**

Ball valves

Product Title	Stock no.	Product no.
Ball valve R ½" with union nut G ¾"	LYU:WZT-K12-34	**WZT-K12-34**
Ball valve R ¾" with union nut G ¾"	LYU:WZT-K34-34	**WZT-K34-34**
Ball valve R ¾" with union nut G 1"	LYU:WZT-K34-1	**WZT-K34-1**
Ball valve R 1" with union nut G 1"	LYU:WZT-K1-1	**WZT-K1-1**
Ball valve Rp ½" for sensor DS M10x1 mm, length 27.5 mm or Ø 5.2x45 mm	S55563-F104	**WZT-K12**
Ball valve Rp ¾" for sensor DS M10x1 mm, length = 27.5 mm or Ø 5.2x45 mm	S55563-F120	**WZT-K34**
Ball valve Rp 1" for sensor DS M10x1 mm, length 27.5 mm or Ø 5.2x45 mm	S55563-F119	**WZT-K1**
Ball valve Rp 1¼ for sensors 38 mm M10x1	LYU:WZT-K54	**WZT-K54**
Ball valve Rp 1½ for sensors 38 mm M10x1	LYU:WZT-K112	**WZT-K112**

Accessories

Product Title	Stock no.	Product no.
Adapter G 3/8 B" with threaded hole to install sensor DS M10x1 mm, incl. gasket G 3/8"	LYU:WZT-A38	**WZT-A38**
Mounting plate for top hat rail	LYU:WZU-MH	**WZU-MH**
Plate for wall mounting	LYU:WZU-WH	**WZU-WH**
Adapter M10x1 mm x G 1/2 B" for sensor DS M10x1 mm / d=5.2 x 45 mm	S55563-F116	**WZT-A12**
Adapter G ¾ B" with threaded hole to install sensor DS M10x1 mm, incl. gasket G ¾"	LYU:WZT-A34	**WZT-A34**
Protection pocket G ½ B", length 35 mm, made of brass, for temperature sensor Ø 5.2x45 mm	S55563-F103	**WZT-M35**
Protection pocket G ½B", brass, Ø 5.2x50 mm, for temperature sensor Ø 5.2x45 mm	LYU:WZT-M50	**WZT-M50**
Protection pocket G ½ B", stainless steel, with threaded hole G ¼", L = 100 mm	S55563-F117	**WZT-S100**
Protection pocket G ½ B", stainless steel, with threaded hole G ¼", L = 150 mm	S55563-F118	**WZT-S150**
Pocket G½"B, stainless steel, 5.2 × 37 mm, with seal	LYU:WZT-S43V	**WZT-S43V**
Adapter set brass for sensor 5.2 x 45 mm	LYU:WZT-FA	**WZT-FA**
Adapter kit for sensor Ø 5.2x45 mm, incl. 2 O-rings	LYU:9956230	**9956230**
Mounting set G ½B" with threaded hole G ¼" for direct mounting of long sensors	LYU:WZT-A100	**WZT-A100**

1

Meters
Ultrasonic heat/cooling energy meters
Ultrasonic heat/cooling energy meters UH50..

Accessories

Product Title	Stock no.	Product no.
Sealing disk Ø 8.6/5.3, size 1 mm, for temperature sensor DS M10x1 mm	LYU:9060944001	**9060944001**
Sealing disk Ø 8.6/5.3, size 1.5 mm, for temperature sensor DS M10x1 mm made of copper	LYU:9060950	**9060950**
Sealing disc ½" made of copper	LYU:9060948	**9060948**
Welding sleeve G ½", 45° to the pipe axis, with threaded hole G ½"	S55563-F122	**WZT-G12**
Welding sleeve G ½", 90° to the pipe axis, with threaded hole G ½"	LYU:WZT-GLG	**WZT-GLG**
Welding sleeve with threaded hole for temperature sensor DS M10×1 mm	S55563-F121	**WZT-G10**
Adapter for ball valve to install sensor DS M10x1 mm, length 38 mm	LYU:WZT-KA	**WZT-KA**
Self-lock seal with sealing wire	LYU:9956186001	**9956186001**
Mounting plate for wall mounting	LYU:WZU-WA	**WZU-WA**

Programming accessories for ultrasonic meters

Product Title	Stock no.	Product no.
Optical read head with USB interface for PC	LYU:WZR-OP-USB	**WZR-OP-USB**
UltraAssist Profi, first license, CD with USB mini-dongle	LYU:WZX-UA-PEU-MINI	**WZX-UA-PEU-MINI**
UltraAssist Profi, second license, USB mini-dongle	LYU:WZX-UA-PFU-MINI	**WZX-UA-PFU-MINI**

AMR wireless system

AMR

The Automatic Meter Reading system (AMR) is an innovative system for wireless remote readout of consumption data. It consists of network nodes (data collectors) which form a network within the premises to collect all consumption data transmitted by the metering devices, to store them and to make them available for further handling. The network nodes can be read either locally or by making use of Internet technologies, also from the office. The types of consumption meters included in the AMR system are heat meters, water meters and heat cost allocators. A pulse adapter is available, enabling third-party meters to be integrated into the system. The AMR system excels in versatility, ease of installation and maintenance, and offers a large number of readout choices matched to customer needs. The system components are suited for installation in small premises (e.g. 3 apartments) and in large plant comprising several buildings. Installation of the wireless network is largely automatic, including self-configuration.
Functioning principle: The system automatically configures itself during installation, forming a network. The battery-powered network nodes receive and store the consumption data from the metering devices installed within their range. In the network, the measured values received from all metering devices are constantly updated. This means that every network node holds the consumption data of the entire plant so that readout can take place at any of the nodes. For local readout, a laptop can be connected to any of the network nodes via cable, or an optional wireless module can be used. This works within the range of each network node. Depending on the local situation, it may not even be necessary to enter the house for making the readout. If AMR plant shall be read out from a remote location, one of the network nodes is to be used with a gateway. This gateway then offers a number of communication choices: Data can be transmitted directly to the billing systems via GSM network, broadband cable network or computer network. The user can choose the transmission medium he prefers.

Data sheet	N2870

	Stock no.	Product no.
	JXF:AMR	**AMR**

Network node

WTT662-BA1100

The network node WTT662.. is a component of an M-bus radio network.
It receives the radio telegrams transmitted by the consumption meters and stores them locally.
The WTT662.. can be read out either locally via M-bus or USB or from a remote location via gateway.

Data sheet	A6V11731517
Operating voltage	3.6 V
Voltage supply	Lithium battery
Battery life	Power supply main battery: Min. 5 years
	Power supply backup battery: Min. 10 years
Communication	C-mode
	S-mode
Ambient temperature, operation	-5...+55 °C
Ambient temperature, storage	-5...45 °C
Degree of protection	IP20
Weight (net)	0.810 kg
Color	White
Dimensions (W x H x D)	200 x 200 x 57.1 mm

	Stock no.	Product no.
	S55563-F157	**WTT662-BA1100**

WTT667-AE0020	M-bus RF gateway WTT667-AE0020

The M-bus RF gateway WTT667-AE0020 collects consumption data from the entire network and transmits it a maximum of 4 times a month via the portal to a defined client.
Reads a max. 2,500 meters per gateway. Meter data is securely transmitted to the portal in the GSM/UMTS band.
Data transmission via GPRS/EDGE/UMTS/HSPA (Quad-Band 900, 1,800 and 2,100 MHz) as well as connectivity through national and international roaming transmits data to the corresponding service throughout Europe at no extract charge. Battery-powered means no additional installation required (service life of 5 years) and GPRS/EDGE/UMTS/HSPA communication.

Data sheet	A6V11918443
Operating voltage	3.0 V
Voltage supply	Lithium battery
Battery life	Min. 5 years
Ambient temperature, operation	-5...+45 °C
Ambient temperature, storage	-5...45 °C
Degree of protection	IP42
Dimensions (W x H x D)	203 x 209 x 58.5 mm

	Stock no.	Product no.
	S55563-F160	**WTT667-AE0020**

WFZ661	Add-on radio module WFZ661 for water meters WF.30.. / WM.10..

Radio adapter for mechanical modularis water meters (WFx30, WMx10). Adapter acquires and processes the metering pulses of the radio-ready mechanical water meters WFx30../WMx10.. and transmits AMR and walk-by telegrams in a parallel way.

Data sheet	A6V10986918

	Stock no.	Product no.
	S55563-F147	**WFZ661**

Tools for network nodes

Product Title	Stock no.	Product no.
M-bus programming adapter (USB)	JXF:WFZ.MBM-USB	**WFZ.MBM-USB**
USB programming adapter	JXF:RNNPH0010020	**RNNPH0010020**
M-bus adapter plug for WFZ.MBM-USB	JXF:RNNPH0020010	**RNNPH0020010**

Batteries for network nodes and gateways

Product Title	Stock no.	Product no.
Battery for WTT..	JXF:WTZ.BAT	**WTZ.BAT**
Backup battery for WTX16..	JXF:FBCRAA/KS	**FBCRAA/KS**

New Product

RF converter   **WTX660-E05060**

The WTX660.. RF converter receives and processes data from heat cost allocators, heat and water meters
within a M-bus radio system.
– Storage for up to 500 metering devices
– Repeater on the mesh system for up to 2,000 additional wireless devices
– Coverage of distances up to 500 meters outdoors and 40 meters in buildings
– Supports devices using AES128 encryption
– Mains power AC 230 V
– Optimum location function
– LED to indicate signal strength

The WTX660-E05060 can only be used in combination with the WTV676-HB6035.

Data sheet	A6V11135903
Operating voltage	AC 100...240 V
Voltage supply	Lithium battery
Frequency	50/60 Hz
Power consumption	Max. 4.5 W
Ambient temperature, operation	-20...+55 °C
Ambient temperature, storage	-25...85 °C
Degree of protection	IP40 per EN60529
Weight (net)	1.46 kg
Color	White
Dimensions (W x H x D)	160 x 160 x 35 mm

	Stock no.	Product no.
	S55563-F149	**WTX660-E05060**

Radio module with integrated antenna for WFx5.. meters   **WFZ662**

The walk-by add-on module acquires and handles the consumption data and service information
delivered by the WFx5.. heat and heat/cooling meters and passes it on parallelly to the walk-by and AMR
system.

Data sheet	N5323

	Stock no.	Product no.
	S55563-F153	**WFZ662**

Tools
Product Title	Stock no.	Product no.
Infrared read head (with USB interface)	JXF:WFZ.IRDA-USB	**WFZ.IRDA-USB**
Triggering tool for radio telegrams	JXF:WFZ.PS	**WFZ.PS**
Torque Screwdriver, Torx Plus™	JXF:FZ201-009	**FZ201-009**

Software
Product Title	Stock no.	Product no.
ACT50 – Readout and parameterization software	JXF:ACT50	**ACT50**
ACT21 - Parameterization software	JXF:ACT21	**ACT21**
ACS26 – AMR remote readout software	JXF:ACS26	**ACS26**
ACT26 – Commissioning and service software	JXF:ACT26	**ACT26**

1

Meters
Systems for remote readout
Walk-by radio system

walk-by

Walk-by radio system

Simple, fast and reliable. These three attributes are the most apt descriptions of the walk-by system. After all, it provides values for billing consumption easily, quickly and dependably. And the meter-reader does not even have to enter the tenant's flat - on the reading date, he only has to enter the commonly accessible area of the property.

For smaller properties, he can even collect data outside of the building. That not only benefits the meter-reader (who does not have to plan and mount data collectors any more), but also tenants. They no longer have to agree on a date for reading or even be there on the readout day. It couldn't be simpler. At the set reading time, the meters send current consumption data at short intervals. The meter-reader only has to enter the building or even just walk around it with his mobile meter-reading system. This consists of a mobile data collector and a laptop with application software. The data collector collects the radio telegrams and, after a plausibility check, sends them wirelessly to the laptop via the Bluetooth interface. The software on the laptop not only manages the data, it also shows the meter-reader the current progress of the process. After having received all data, the meter-reader can then leave the property. Back at his workplace, the meter-reader only has to export the data saved and read them for example into a billing program. If data is needed on a regular basis – meaning permanently mounted data collectors are to be retrofitted with an interface for remote data transmission – the measuring devices can be reprogrammed from the walk-by system to the stationary AMR system from Siemens at any time. This means that readout values can be called up on a daily basis without entering the property.

Within the walk-by system there are walk-by heat cost allocators and walk-by radio adpaters available. More devices on request.

	Stock no.	Product no.
	JXF:walk-by	**walk-by**

WFZ661

Add-on radio module WFZ661 for water meters WF.30.. / WM.10..

Radio adapter for mechanical modularis water meters (WFx30, WMx10). Adapter acquires and processes the metering pulses of the radio-ready mechanical water meters WFx30../WMx10.. and transmits AMR and walk-by telegrams in a parallel way.

Data sheet	A6V10986918	

	Stock no.	Product no.
	S55563-F147	**WFZ661**

WFZ662

Radio module with integrated antenna for WFx5.. meters

The walk-by add-on module acquires and handles the consumption data and service information delivered by the WFx5.. heat and heat/cooling meters and passes it on parallelly to the walk-by and AMR system.

Data sheet	N5323	

	Stock no.	Product no.
	S55563-F153	**WFZ662**

Tools and software

Product Title	Stock no.	Product no.
ACT50 – Readout and parameterization software	JXF:ACT50	**ACT50**
Walk-by readout software	LYU:ACT46	**ACT46**
Mobile data collector	JXF:WTT665-BD5000	**WTT665-BD5000**
Infrared read head (with USB interface)	JXF:WFZ.IRDA-USB	**WFZ.IRDA-USB**
Triggering tool for radio telegrams	JXF:WFZ.PS	**WFZ.PS**
Torque Screwdriver, Torx Plus™	JXF:FZ201-009	**FZ201-009**

Meters
Systems for remote readout
M-bus system

1

M-Bus metering system   M-Bus

The M-Bus Metering System is a proven system used for the remote readout of consumption data. It conforms to EN 1434/3. The system contains all components required for reading M-bus-compatible consumption meters via an easy-to-install, interference-proof 2-wire bus. The consumption meters available within the M-Bus Metering System are heat meters and water meters. A pulse adapter enables third-party meters to be integrated into the system. M-bus-compatible meters of other manufacture can also be read out after appropriate testing. The M-Bus Metering System exels in immunity, ease of installation and maintenance plus sow a large number of readout choices matched to customer needs. The system components are suited for installation in small premises (e.g. 3 apartments) and in large plant comprising several buildings.

Data sheet   N5361

	Stock no.	Product no.
	BPZ:M-Bus	**M-Bus**

M-bus web server   **WTV676-HB6035**

The M-bus web server reads devices connected directly to the web server, devices connected to the web server via level converters as well as devices connected to the web server via RF converters.
Web server can be used:
- Alone with up to 20 directly connected, wired M-bus devices
- As master on a M-bus network with up to six parallel connected level converters per line. Per line up to 250 M-bus devices (max. 250 M-bus meters, max. 250 RVD converters) can be connected.
- As a master on an M-bus wireless network with up to 23 RF converters, each with up to 500 wireless devices

The web server can read out up to 2,500 wireless devices and up to 500 wired devices. It records the data from the connected M-bus devices, can evaluate the data, and sends email notifications on events and alarms.
A PC/Internet browser reads the data and log files either locally over Ethernet or from anywhere over the Internet. In addition, the report files can be periodically transmitted with device data to an email recipient or to an FTP server.

An email can be sent on events and alarms.
The web server can be integrated in the Synco IC-Cloud. This permits the periodic upload of invoicing and trend data as well as alarm messages to the cloud per customized settings as well as distributing the information to the corresponding customers via email.

Data sheet	A6V11157961
Operating voltage	AC/DC 24 V +/- 10 %
Frequency	50/60 Hz
Power consumption	Max. 15 VA
Ambient humidity, operation	5...95 % r. F.
Mounting	DIN rail
Weight (net)	2.44 kg

	Stock no.	Product no.
	S55563-F150	**WTV676-HB6035**

1

Meters
Systems for remote readout
M-bus system

WTX631-GA0090

M-bus Level Converter/Repeater 250

The level converter/repeater WTX631-GA0090 is the interface between M-bus device and a read system. It consists of a level converter and the associated power supply.
- The level converter and associated power supply form a unit: No addition transformer or auxiliary power required
- Connect up to 250 M-bus devices (max. 250 simply M-bus loads)
- Can be used with the M-bus web server WTV676.., PXC devices, other M-bus read / configuration systems
- Up to 6 level converters connected in parallel on one M-bus network
- Local data reading of M-bus devices via RS-232 or RS-485 interface
- Remote reading of M-bus devices via M-bus web server WTV676.. (Cloud)

Data sheet	A6V11742346
Operating voltage	Power supply: AC 110...240 V
	Level converter: DC 24 V
Frequency	50/60 Hz
Power consumption	6 W + 0.07 W for each connected M-bus device
Ambient temperature, operation	-20...+55° C
Mounting	DIN rail
Degree of protection	IP20
Weight (net)	0.392 kg
Dimensions (W x H x D)	Per device: 110 x 71 x 62 mm

	Stock no.	Product no.
	S55563-F159	**WTX631-GA0090**

WTV531-GA5060

Level converter

The level converter WTV531-GA6050 is an interface for use between M-bus meters and reading systems. The meter data can be read on site via PC software ACT531 or via internet using the optional web server. The level converter can read up to 60 M-bus devices (60 M-bus loads).
It is used:
- As a master on an M-bus network with up to 60 meters. It can read data on site from the level converter with the help of PC software ACT531
- As a slave to extend the M-bus network to up to 6 level converters (1 master and 5 slaves) with up to 60 devices each. It can read out a maximum of 360 M-bus loads and a maximum of 1,000 logical meters. Data are read locally via the master level converter
- As a slave on the optional M-bus web server to read data from remote locations

Data sheet	A6V10844290
Operating voltage	24 V AC/DC
Frequency	50/60 Hz
Power consumption	Max. 12 VA
Weight (net)	0.166 kg

	Stock no.	Product no.
	S55563-F145	**WTV531-GA5060**

Software and Tools

Product Title	Stock no.	Product no.
ACT50 – Readout and parameterization software	JXF:ACT50	**ACT50**
Readout software for WTV531-GA5060 level converter	JXF:ACT531	**ACT531**
Infrared read head (with USB interface)	JXF:WFZ.IRDA-USB	**WFZ.IRDA-USB**
M-bus programming adapter (USB)	JXF:WFZ.MBM-USB	**WFZ.MBM-USB**
USB programming adapter	JXF:RNNPH0010020	**RNNPH0010020**
M-bus adapter plug for WFZ.MBM-USB	JXF:RNNPH0020010	**RNNPH0020010**

Meters
Systems for remote readout
M-bus system

1

M-bus add-on module for water meters WF.30.. / WM.10..   WFZ311

The M-bus add-on module is used to integrate a mechanical water meter WFx30.. / WMx10..in an M-bus system. It can be retrofitted at any time.

Data sheet   A6V11991477

	Stock no.	Product no.
	S55563-F158	WFZ311

M-bus add-on module for WFx5.. meters   WFZ51

The add-on module acquires and processes the consumption data and service information from the WFx5.. heat and heat/cooling energy meter. It is periodically read out by an M-bus master.

Data sheet   N5323

	Stock no.	Product no.
	S55563-F131	WFZ51

M-bus pulse adapter   AEW310.2

Module for acquiring and storing the pulses received from consumption meters with pulse output. It can handle pulses from heat, gas, hot water, chilled water, electricity or hours run meters.

Data sheet   N5383
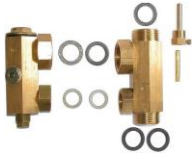
	Stock no.	Product no.
	S55563-F130	AEW310.2

New Product

1

Meters
**Synergyr control and metering system
Mounting kit for WRV81/84 replacement**

ALG80WRI	**Mounting kit for WRV81/84 replacement**

Using the ALG80WRI, heat meter and small valve (complete with actuator) can be installed in very confined spaces, analogous to the WRV mounting dimensions.
The ALG80WRI consists of 2 hydraulic diversion pieces with fittings, a built-in immersion sleeve and the necessary sealings.

Data sheet	N2803

	Stock no.	Product no.
	BPZ:ALG80WRI	**ALG80WRI**

ALG83WRI	**Mounting kit for WRV83 replacement**

Using the ALG83WRI, a WRV83 valve can be hydraulically replaced by a heat meter without having to modify the existing piping.
The ALG83WRI consists of 2 threaded adapters (from ¾" to 1"), an immersion sleeve and the necessary sealings.

Data sheet	N2803

	Stock no.	Product no.
	BPZ:ALG83WRI	**ALG83WRI**

ALG10/20	**Mounting kit**

Mounting kit for zone valve VVP47.10...; to be applied when replacing a valve WRV8... by an interface WRI80.

Data sheet	N2803
Warranty	2 Years

	Stock no.	Product no.
	BPZ:ALG10/20	**ALG10/20**

Meters
Synergyr control and metering system
Mounting kit for WRV83 replacement

1

Mounting kit for WRV83 replacement   ALG83WRI

Using the ALG83WRI, a WRV83 valve can be hydraulically replaced by a heat meter without having to modify the existing piping.
The ALG83WRI consists of 2 threaded adapters (from ¾" to 1"), an immersion sleeve and the necessary sealings.

Data sheet   N2803

	Stock no.	Product no.
	BPZ:ALG83WRI	**ALG83WRI**

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We work together with customers and partners to create an ecosystem that both intuitively responds to the needs of people and helps customers achieve their business goals.

It helps our customers to thrive, communities to progress and supports sustainable development to protect our planet for the next generation.

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