

Multi-Jet Dry Meter MODULARIS

MTK-...WX, MTW-...WX



Fig. top view MTK-HWX

Made of high-grade materials, our Wehrle multi-jet dry meters MODULARIS are characterized by exceptional functionality, excellent workmanship and reliability. Their measurement results are reliable even in cases of heavily soiled water.

- Ready for integration into any AMR system
- Temperature range up to 50 °C (cold) and up to 90 °C (warm)
- Nominal flow Q_3 2,5 in m³/h up to Q_3 25 in m³/h
- Nominal size DN15 up to DN50
- Length 105 mm up to 300 mm
- MID measurement accuracy class (Q_3/Q_1) up to R160 horizontal
- 360° rotatable 8-digit totalizer
- Brass body (DN50: grey cast iron)
- Maximum pressure load 1,6 MPa
- Protection code IP64

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REMOTE READING OPTIONS AMR (Automatic Meter Reading)

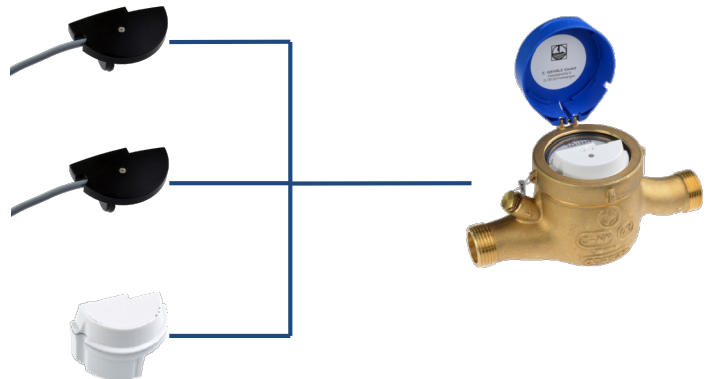
MODULARIS modules:

MODULARIS Pulse Generator, S0, DIN 43864
 alternatively with

- 1 Litre per pulse
- 10 Litres per pulse
- 100 Litres per pulse

MODULARIS M-Bus module
 according to EN 1434-3

MODULARIS Radio module, frequency range
 433 MHz or 868 MHz (OMS)



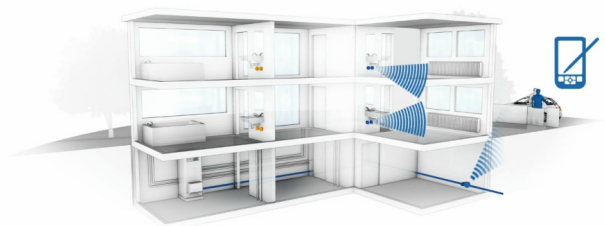
Retrofitting with Modularis Radio module

- Individually parameterizable
- Data recording via walk-by / drive-by
- Consumption data permanently stored
- Battery lifetime of up to 12 years
- Detection of rotation direction
- Manipulation detection



Maximum convenience through AMR walk-by / drive-by solution

- Recording and storage of consumption data inside the radio module
- Reading of stored data via mobile reading device



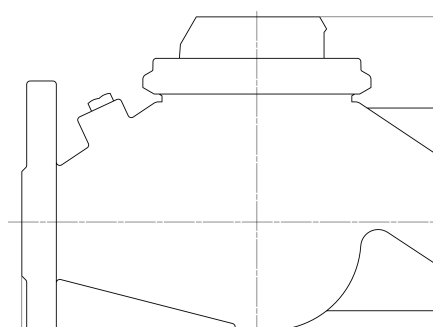
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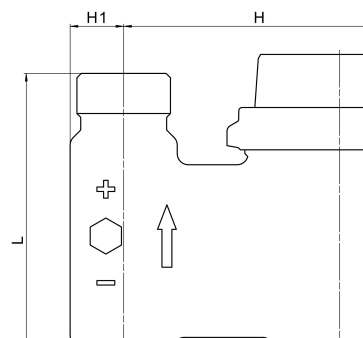
TECHNICAL DATA

Model

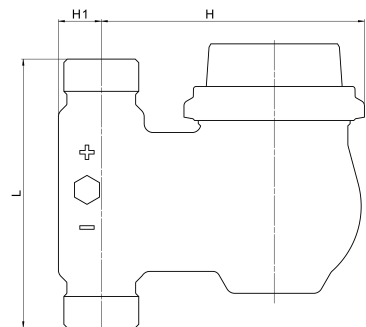
MTK-... = Cold water from 0,1 °C up to 50 °C
 MTW-... = Warm water from 0,1 °C up to 90 °C



MTK-HWX with connection thread F50,
 MTW-HWX with connection thread F50



MTK-SWX,
 MTW-SWX



MTK-FWX,
 MTW-FWX

Installation position	Model	Length* L in mm	Height H in mm (ca.)	H1 in mm	Nominal flow Q3 in m³/h	Nominal width DN in mm	Thread in inch	Starting flow** in l/h	Flow rate Q' at 1 bar pressure loss in l/h (ca.)	Weight in kg (ca.)
horizontal	MTK-HWX MTW-HWX	165 ^{c)}	82	34	2,5	15	G ¾ B	8	4500	1,5
		190	84	32	4	20	G 1 B	8	5600	1,6
		260	93	44	6,3	25	G 1 ¼ B	14	11000	2,9
		260	93	44	10	25	G 1 ¼ B	17	12500	2,9
		260	93	44	10	32	G 1 ½ B	17	12500	2,9
		270	118	51	25 ^{b)}	50	G 2 ½	20	31250	10,0
		270	118	76	25 ^{b)}	50	F 50	20	31250	12,5
		300	101	55	16 ^{b)}	40	G 2 B	19	24000	4,9
ascending	MTK-SWX MTW-SWX	105	130	18	2,5	20	G 1 B	8	5500	1,7
		105	130	18	4	20	G 1 B	8	5500	1,7
		150	148	24	6,3	25	G 1 ¼ B	14	12500	2,8
		150	148	24	10	25	G 1 ¼ B	17	12500	2,8
		150	181	30	16 ^{b)}	40	G 2 B	19	26000	4,7
		200	181	30	16 ^{b)}	40	G 2	19	26000	5,0
descending	MTK-FWX MTW-FWX	105	130	17	4	20	G 1 B	8	5500	1,9
		105	130	17	2,5	15	G 1	8	5500	1,9

* Additional lengths available on request ** Typical values in horizontal installation position

a) for Q3 25 MTW-HWX (warm water) only possible with a length of 270 mm

b) warm water meters only available as quality approved versions

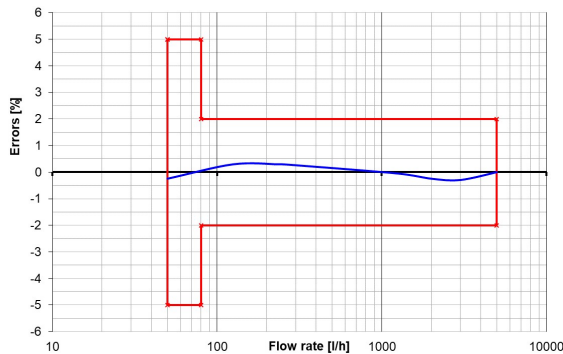
c) Length 165 mm only available with blue painted housing and only as cold water version

The meter does not require any upstream or downstream straight length (U0/D0)

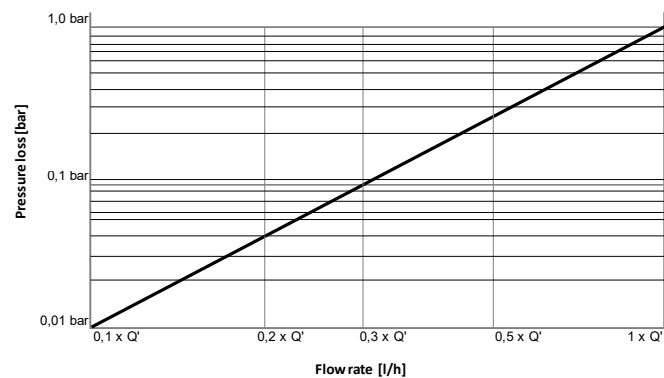
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Typical error curve Q₃ 4 R80H



Typical pressure loss graph



APPROVALS / CERTIFICATES / STANDARDS

- EU-Type Examination Certificate according to 2014/32/EU (MID)
- OIML R49
- EN 14154
- KTW-BWGL / W270 (D)

ADDITIONAL OPTIONS

- Individual labelling of totalizer and/or protection cover (on customer request)
- Transparent cover with viewing window for litre pointer → Fig. ①
- Insert back-flow preventer
- Individual customer serial number (max. 14 figures)
- Protection cover with rotatable inner disk (labelling surface on interior)



Fig. ①

VARIANTS



Fig. MTW-HWX (warm water)
 Length 165 mm only available with
 blue painted housing and only as cold
 water version



Fig. MTK-SWX (ascending pipe) Without fig. MTK-FWX (downpipe)