



# Multi-Jet Dry Meter MODULARIS

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

## 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

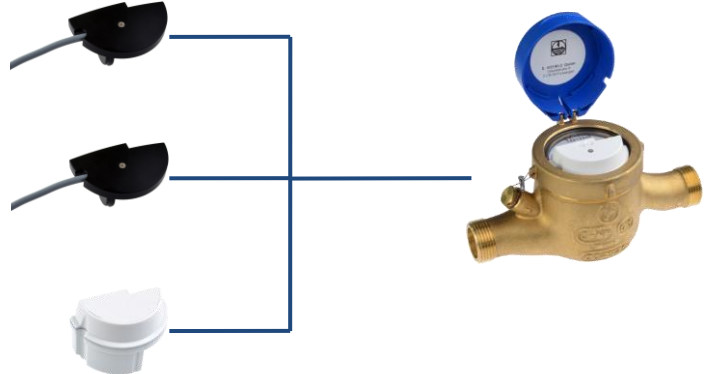
- 100 Litres per pulse

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

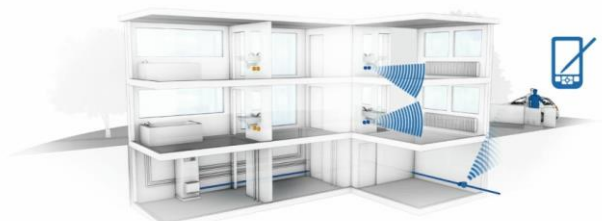
- Individually parameterizable
- Data recording via walk-by / drive-by
- Consumption data permanently stored
- Battery lifetime of up to 12 years
- Detection of rotation direction
- Manipulation detection



### 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



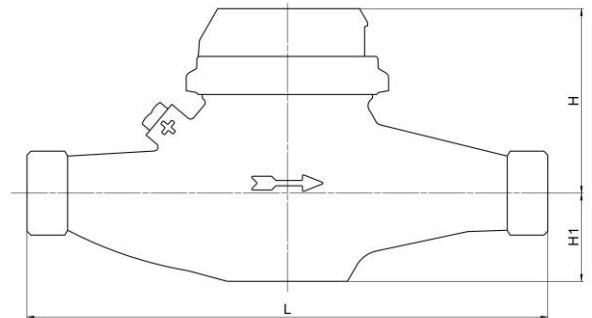
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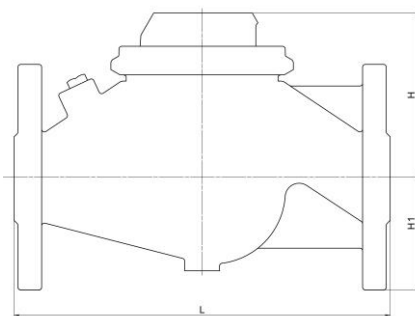
## TECHNICAL DATA

### Model

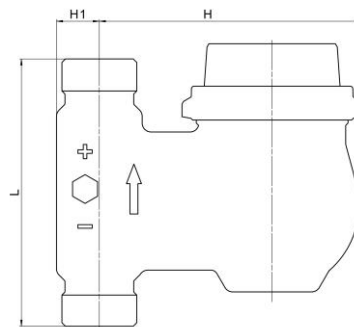
MTK- ... = Cold water from 0,1 °C up to 50 °C  
 MTW- ... = Warm water from 0,1 °C up to 90 °C



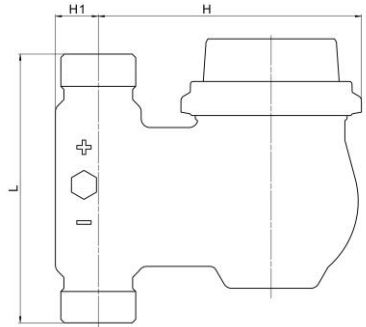
MTK-HWX  
MTW-HWX



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



MTK-SWX,  
MTW-SWX



MTK-FWX,  
MTW-FWX

| Installation position | Model              | Length*<br>L in mm | Height<br>H in mm<br>(ca.) | H1<br>in mm | Nominal flow<br>Q3 in m³/h | Nominal width<br>DN in mm | Thread<br>in inch | Starting flow**<br>in l/h | Flow rate Q'<br>at 1 bar pressure loss | Weight<br>in kg<br>(ca.) |
|-----------------------|--------------------|--------------------|----------------------------|-------------|----------------------------|---------------------------|-------------------|---------------------------|----------------------------------------|--------------------------|
| horizontal            | MTK-HWX<br>MTW-HWX | 165                | 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                         | 50                        | G 2 ½             | 20                        | 31250                                  | 10,0                     |
|                       |                    | 270                | 118                        | 76          | 25                         | 50                        | F 50              | 20                        | 31250                                  | 12,5                     |
|                       |                    | 300                | 101                        | 55          | 16 <sup>b)</sup>           | 40                        | G 2 B             | 19                        | 24000                                  | 4,9                      |
|                       |                    | 300 <sup>a)</sup>  | 118                        | 57          | 25 <sup>b)</sup>           | 50                        | G 2 ½ B           | 20                        | 31250                                  | 9,5                      |
|                       |                    | 300 <sup>a)</sup>  | 118                        | 70          | 25 <sup>b)</sup>           | 50                        | F50               | 20                        | 31250                                  | 11,5                     |
| ascending             | MTK-SWX<br>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 <sup>b)</sup>           | 40                        | G 2 B             | 19                        | 26000                                  | 4,7                      |
|                       |                    | 200                | 181                        | 30          | 16                         | 40                        | G 2               | 19                        | 26000                                  | 5,0                      |
| descending            | MTK-FWX<br>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

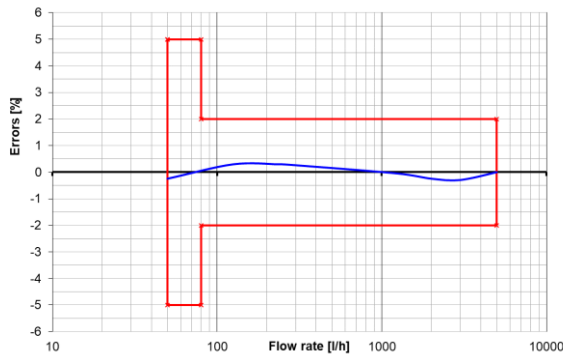
b) warm water meters only available as quality approved versions

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

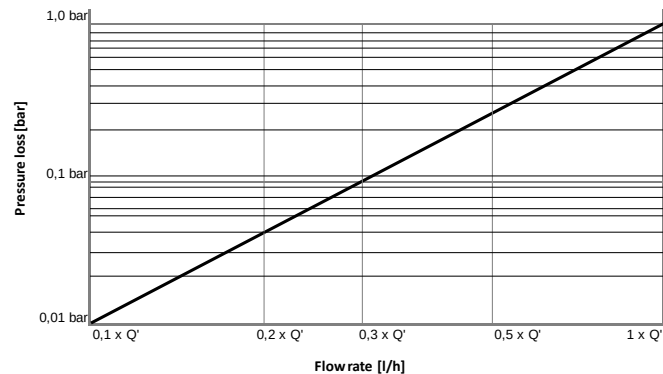
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## Typical error curve Q<sub>3</sub> 4 R80H



## 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)



Fig. MTK-SWX (ascending pipe)

Without fig. MTK-FWX (downpipe)