



APPLICATIONS

Measurement of high flow rates with extremely wide spread flow profile

Measurement of very small flow rates for leakage detection

Ideal for fire service pipes



MeiTwin with 612MTW-ER56/66



MeiTwin with 612MTW

MeiTwin with MID approval

Compound Water Meter for cold water up to 50 °C DN 50, DN 65, DN 80, DN 100

Main Features

The main meter and the by-pass meter are arranged one behind the other in the direction of flow.

There is no longer any need for the differentiation between the "by-pass meter on the right" and "by-pass meter on the left".

No straight upstream or downstream pipe necessary due to integrated flow straightener (U0D0).

Removable metrological unit consisting of the main meter, the changeover valve and the by-pass meter ("3 in 1" concept).

A multirange metrological unit allows an easy economical replacement after the validity period of the calibration has expired.

Main meter with hydrodynamic balanced rotor.

Spring-loaded change-over valve with low headloss and extended lifetime.

By-pass meter specified as a piston meter cartridge 612MTW-HRI with plug-in non-return valve, register copper/glass, protection class IP68.

Minimum flowrate: 6 l/hour for piston type by-pass meter.

Available in body lengths specified as per DIN 19625 and ISO 4064.



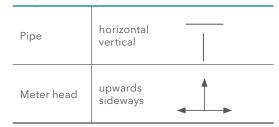
MeiTwin with MID approval

Compound Water Meter for cold water up to 50 °C DN 50, DN 65, DN 80, DN 100

PATTERN APPROVAL

Marking	CE M-XX* 0102
	DE-21-MI001-PTB006
	*Year of production

INSTALLATION



The meter does not require any upstream or downstream straight length.

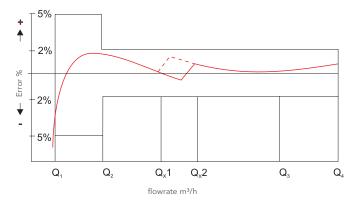
TECHNICAL DATA

Performance Table acc. to Manufacturers Values	s						
Size	DN	[mm]	50	65	80	100	
Maximum Working Pressure	PN	[bar]		16			
Maximum Peak Flow	Q _s	[m³/h]	90	120	200	280	
Continuous Flow	Q _{3'}	[m³/h]	50	70	120	180	
Changeover Flowrate at Increasing Flow	O _{x2}	[m³/h]		2.0 - 2.6			
Changeover Flowrate at Decreasing Flow	O _{x1}	[m³/h]		1.1 - 1.7			
Transitional Flowrate	Q ₂	[m³/h]		0.012			
Minimum Flowrate	Q _{1′}	[m³/h]			0.006		

Performance Table acc. to MID Pattern Approval

Size	DN	[mm]	50	65	80	100
Maximum Working Pressure	PN	[bar]	16			
Maximum Peak Flow	Q ₄	[m³/h]	31.25	50	78.75	125
Continuous Flow	O ₃	[m³/h]	25	40	63	100
Changeover Flowrate at Increasing Flow	Q _{x2}	[m³/h]	2.0 - 2.6			
Changeover Flowrate at Decreasing Flow	Q _{x1}	[m³/h]	1.1 - 1.7			
Transitional Flowrate	Q ₂	[m³/h]		0.0)25	
Minimum Flowrate	Q ₁	[m³/h]	0.016			
Ratio	Q ₃ /Q ₁		1600	2500	4000	6300

Typical Accuracy Curve



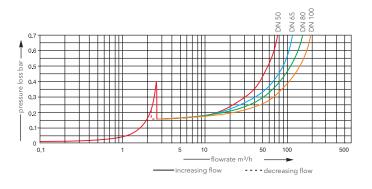
Q_1 minimum flow ±5%

 Q_2 transitional flow ±2%

 Q_3 continuous flow ±2%

 Q_4 maximum peak flow ±2%

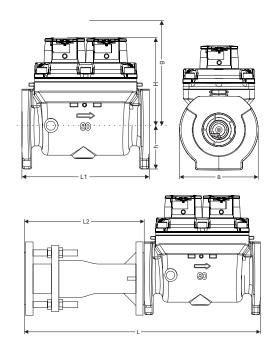
Typical Head Loss Curve



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Dimensional Diagram

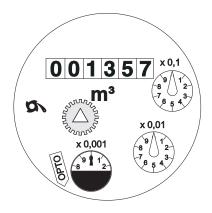


DIMENSIONS AND WEIGHTS

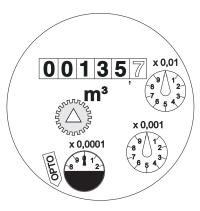
Nominal Diameter		mm	50	65	80	100
Overall	L1	mm	270		300	360
length	L1	mm	300	300	350	350
Height	Н	mm	250			
	h	mm	80	92.5	100	100
Dismantling height	g	mm			505	
Length	L2	mm	330±40		400±60	440±60
	L*	mm	600±40		700±60	800±60
Width		mm	185	185	210	220
Weight	meter	kg	23.0	24.6	26.1	31.0
	measuring unit	kg			7	
	spool piece	kg	10.5		16.5	20.5

^{*} for MeiTwin with body length according DIN 19625

Dial



Main meter



By-pass meter (type 612MTW-HRI)

MATERIALS

Body Main meter		castiron
	By-pass meter	brass
Measuring	g element (both meters)	plastic
Rotor (bot	h meters)	plastic
Spring loa	ided valve	plastic and stainless steel

By-pass Meters

Standard By-pass meter

Piston meter cartridge dry dial $\label{eq:cartridge} \mbox{type 612MTW-HRI } \mbox{Q}_{\mbox{\scriptsize 3}} \mbox{ 4}$



By-pass meter (type 612MTW-HRI)



By-pass meter (type 612MTW-ER56/66)



By-pass meter (type 612MTW)

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Options

Optional by-pass meter:

- 612MTW-ER56/66, piston type meter with Encoder register, protection class IP68
- 612MTW, piston type meter with plastic register casing, protection class IP65

Main and by-pass meters fitted with pulse and data interface HRI-Mei and/or pulsers type OD (with by-pass meter 612MTW-HRI)

Main and by-pass meters equipped with Encoder register ER56/66 for direct meter reading via data protocol (M-Bus, Sensus, IEC 1107)

Spool piece for extension of meter casing as per DIN 19625

Port for 1/4" pressure sensor

PULSE VALUES

Main meter	HRI-Mei	0.01 m³, 0.1 m³ and 1 m³
(standard register)	OD 01	0.001 m ³
	OD 03	0.01 m³
Main meter (Encoder register)	HRI	0.1 m³ or 1 m³
By-pass meter	HRI-Mei	0.001 m³; 0.01 m³ and 0.1 m³
(type 612MTW-HRI) (Standard)	OD 01	0.0001 m ³
(Staridard)	OD 03	0.001 m ³
By-pass meter (type 612 MTW-ER56)	HRI	0.001 m³; 0.01 m³; 0.1 m³ or 1m³
By-pass meter (type 612 MTW)	HRI	0.001 m³; 0.01 m³; 0.1 m³ or 1 m³

AVAILABLE VARIANTS

Size	DN	50	65	80	100
Nominal size	Q ₃	25	40	63	100
		Overall length as per DIN 19625			525
Overall length	mm	270		300	360
		Overall length as per ISO 4064			54
Overall length	mm	300	300	350	350

Accessories

Spool pieces for extension of meter casing as per DIN 19625					
Size	DN	50	65	80	100
Overall length	mm	330±40		400±60	440+60

Order example

	Type Size Temperature Pressure
MeiTwin, DN 50, T30/16	
Drilled to EN 1092 PN 16	Flange drilling
Type 612MTW-HRI by-pass meter Q ₃ 4 ————	By-pass meter
Overall length 270 mm	Overall length
With MID conformity	Type of approval
With spool piece	Fittings
DN 50 —	Nominal width





UK & Ireland Inquiries | Sensus UK Systems Ltd. | +44 1256 372800 | Sensus UK.Orders@xylem.com

International Inquiries | Sensus GmbH Hannover | Meineckestr. 10 | 30880 Laatzen | Germany | +49 5102 743177 info.int@xylem.com

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