Technical Datasheet

Diehl HYDRUS 2.0 Ultrasonic Water Meter

Part Code	Name	Size	Q3 (m^3/h)	Body Length	Output
DI025HY	Diehl HYDRUS ultrasonic hot water meter	25 mm	6.3	260 mm	Wireless MBus OMS
DI032HY	Diehl HYDRUS ultrasonic hot water meter	32 mm	10	260 mm	Wireless MBus OMS

The Diehl HYDRUS 2.0 is a static ultrasonic water meter for domestic and residential supply, MID approved, with an integrated Wireless MBus OMS radio. It measures with ultrasound, so there are no moving parts to wear or jam, it does not measure air and it is insensitive to sediment. The hot water versions measure water up to 90 °C, and the meter is IP68 and suitable for outdoor installation. It needs no straight pipe runs before or after it and can be fitted horizontally or vertically.

Features:

- Static ultrasonic flow measurement, insensitive to sediment
- Hot water versions for water up to 90 °C
- MID approved, dynamic range R40, R80 or R160
- Integrated OMS Wireless MBus radio with encrypted data
- Mobile and fixed network reading
- 8 digit LCD with errors, alarms and leakage detection
- Battery life up to 12 years on the hot water versions
- IP68, no straight pipe runs needed



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Technical Datasheet
Diehl HYDRUS 2.0 Ultrasonic Water Meter

Technical Specification	
Size and thread	
DI025HY	25 mm, meter thread G 5/4 B (G 1 1/4 inch), Q3 6.3 m³/h, body length 260 mm
DI032HY	32 mm, meter thread G 3/2 B (G 1 1/2 inch), Q3 10 m³/h, body length 260 mm
Measurement	
Medium	Hot water, 0.1 to 90 °C
Operating pressure	Above 0.3 bar up to 16 bar (PN16)
Principle	Ultrasonic, static
Accuracy class	Class 2 (OIML R49)
Accuracy	±5 % from Q1 up to Q2, ±3 % from Q2 up to Q4
Dynamic range	R40, R80 or R160
Approval	MID, certificate DE 19 MI001 PTB012
Communications	
Radio	Integrated OMS Wireless MBus, encrypted data with individual keys
Frequency	868 MHz at 25 mW e.r.p. or 434 MHz at 10 mW e.r.p.
Telegram interval	Every 14 to 256 seconds, depending on protocol length and programming
Reading	Mobile (walk by and drive by) and fixed network
Interface	Optical button for display scrolling, configuration and reading
Mechanics	
Protection class	IP68, indoors or outdoors, frost free
Body	Lead free brass
Register	8 digit LCD, total volume, flow rate, errors, alarms and leakage detection
Ambient temperature	1 to 70 °C
Storage temperature	Minus 20 to 70 °C (above 35 °C for a maximum of 4 weeks)
Power and data	
Battery	Up to 12 years on hot water (T90) versions, not replaceable
Data storage	1024 daily values, 32 monthly values and two annual due dates

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