

# M140H WIRELESS MBUS

**Flush-mounted multi-jet meter for cold or warm water with electronic OMS compliant wMBus communicating register.**

The M140H is a hybrid measuring capsule water meter with tamper-proof electronic sensing of the impeller and a fully electronic counter with integrated wMBus, OMS compliant, communication. The extensive range of cartridge interfaces and convertors allows for simple installation of the M140H, no matter which meter housing is found on site. Available with cartridge interface types TE1, IST, MOC, MOE and MET and convertors for A34, MB3, MUK, DM1, WE1, WGU and HT2 interfaces.

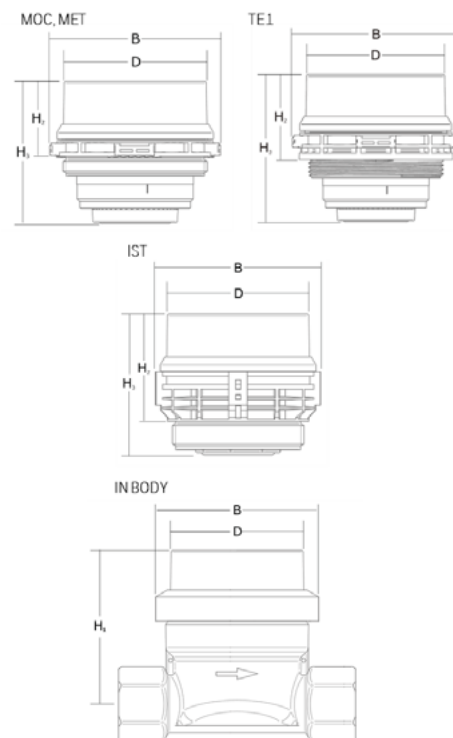
- wMBus to EN13757-4, OMS compliant
- AES-128 data encryption; Encryption Modes 5 and 7
- Direct inductive sensing of rotor movement
- Cold water up to 30°C, hot water up to 90°C
- Nominal flow rate  $Q_3$  2.5 m<sup>3</sup>/h
- Comprehensive portfolio of cartridges and convertors



*Interoperable mobile or stationary remote reading of Honeywell's sub-metering product range. For an easy and fast read out the register sends meter information such as meter index, historic values and operating information periodically. The transmitted data can be received by various mobile receivers or gateways.*

## TECHNICAL SPECIFICATIONS

DESIGNATION					
Permanent Flow Rate Q <sub>3</sub>	m³/h	2.5			
Flush Mounted Body Type		MOC	MET	TE1	IST
		Honeywell	Metrona	Techem	Ista
DIMENSIONS					
B: Width of Capsule	mm	77			75
D: Diameter of Register	mm	64			
H <sub>1</sub> : Centreline Height	mm	80		70	76
H <sub>2</sub> : Capsule Above Thread	mm	40			50
H <sub>3</sub> : Capsule Overall Height	mm	65			
Weight	kg	0.13			0.16
PERFORMANCE DATA					
Overload Flow Rate	Q <sub>4</sub> m³/h	3.125			
Permanent Flow Rate	Q <sub>3</sub> l/h	2.5			
Transitional Flow Rate	Q <sub>2</sub> l/h	50H/100V			
Minimum Flow Rate	Q <sub>1</sub> l/h	31.25H/62.5V			
Starting Flow	l/h	4			
Measuring Range	Q <sub>3</sub> /Q <sub>1</sub>	R80H/R40V			
Temperature Class Mat	°C	30; 30/90			
Pressure Rating Map	bar	16			
Flow Disturbance Class		U0/D0			

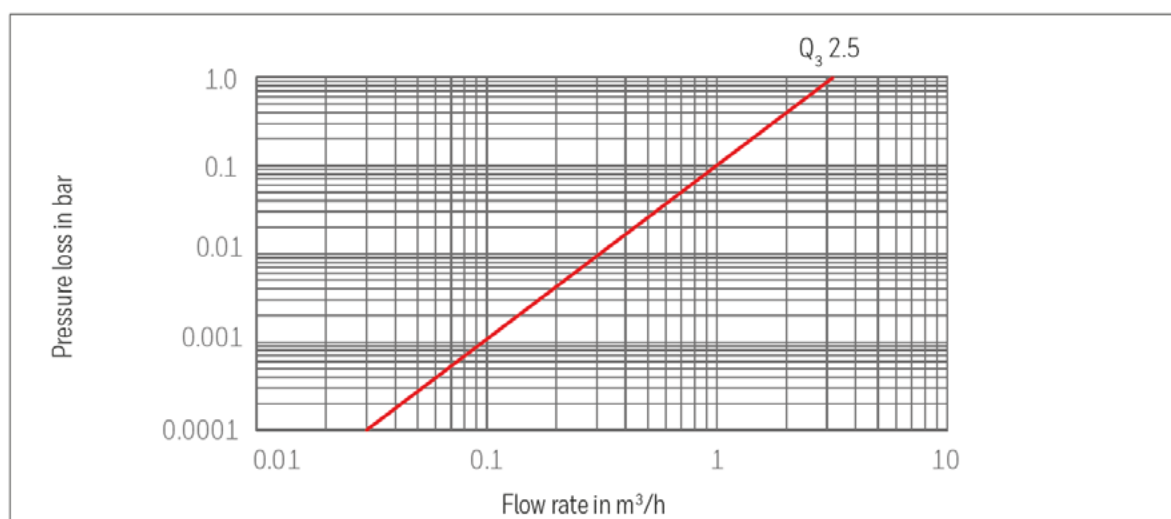


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APPLICATION DATA	
Ingress Protection	IP56, IP57, IP58, IP66, IP67, IP68
Environment Class	B
Mechanical Class	M1
Electromagnetic Class	E1
Display Type	LCD
Measurement Unit	Cubic metres (m <sup>3</sup> )
Display Range	99,999.999 m <sup>3</sup>
Display Functions Access	Push button
Display Resolution	User mode: 1 litre
	High resolution mode: 0.001 litre
Flow Direction Indicator	Forward arrow, reverse arrow
Alert Indication	Alert notification type coded digit
Rotor Sensing	Inductive, 2 coils non-reactive
Ambient Temperature	0°C to +55°C
Storage Temperature	-20°C to +60°C

COMMUNICATION DATA		
Frequency Band	868.95 MHz Wireless MBus radio, Mode C and Mode T	
Encryption	Supports Mode 5 and Mode 7	
Transmission Mode	T1 and C1 (frame format A and B), unidirectional	
Battery	3.6 V lithium	
Battery Size	½ AA cell	AA cell
Battery Lifetime	Up to 7 years	Up to 14 years
Alerts (Configurable)	Backflow, overload flow, leak, burst, tamper	
Radio Conformity	RED 2014/53/EU, EN 13757, OMS wMBus V4	
Electronic Conformity	EMC 2014/30/EU, RoHS 2011/65/EU, WEEE 2012/19/EU	
Metrology Conformity	MID 2014/32/EU, OIML R49, EN ISO 4064	

## TYPICAL PRESSURE LOSS



## For more information

[automation.honeywell.com](http://automation.honeywell.com)

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FUTURE  
IS  
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MAKE IT

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