

S110H WIRELESS MBUS

Surface-mounted single-jet meter for cold or hot water with electronic OMS compliant wMBus communicating register.

The S110H is a surface-mounted single-jet meter with tamper-proof electronic sensing of the impeller and a fully electronic register. Developed to measure consumption of cold water up to 30°C and hot water up to 90°C. It is available in 15mm and 20mm sizes. The inductive impeller rotation sensing ensures high measurement accuracy and operational reliability. With the integrated OMS compliant 868 MHz radio communication, consumption values and meter data can be remotely and securely accessed without the need to enter the property.

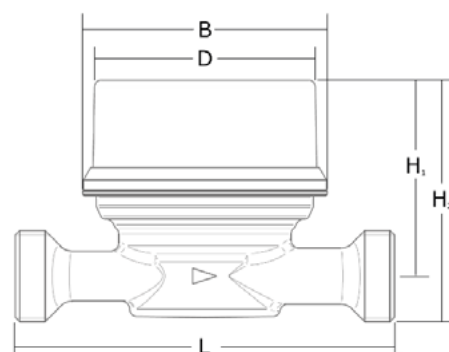
- wMBus to EN13757-4, OMS compliant
- AES-128 data encryption; Encryption Modes 5 and 7
- Direct inductive sensing of rotor movement
- Cold water up to 30°C, hot water up to 90°C
- Nominal flow rate Q_3 2.5 and 4 m³/h
- Meter lengths 80, 110, 130 mm



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

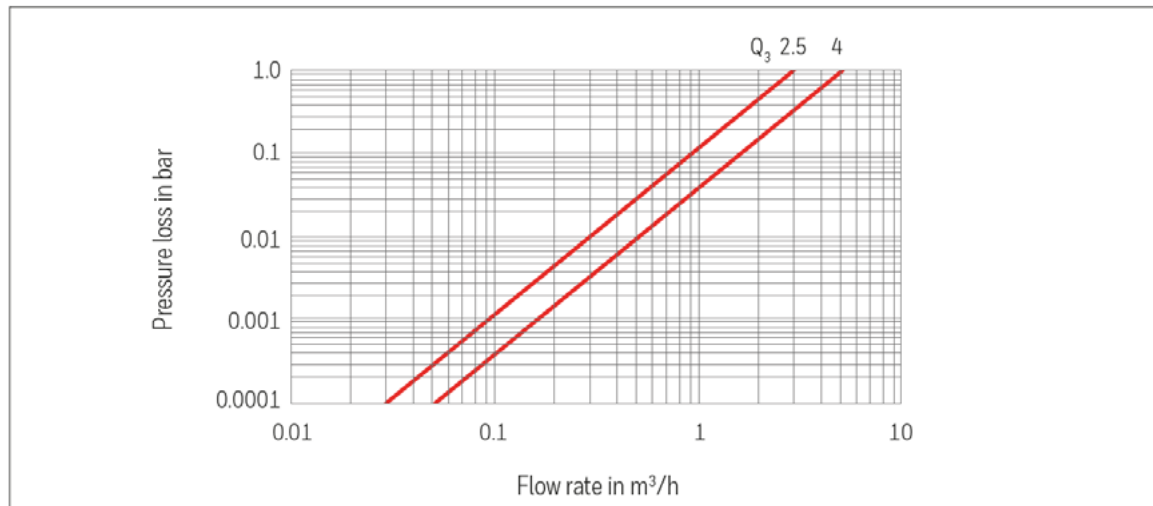
DESIGNATION					
Permanent Flow Rate Q ₃	m ³ /h	2.5			4
Nominal Size DN	mm	15			20
DIMENSIONS					
C: Connection Thread	inches	G 3/4 B		G 1 B	
L: Length	mm	80	110	110	130
B: Overall Width	mm	71			
D: Diameter Register Cap	mm	64			
H ₁ : Centreline Height	mm	57.5			
H ₂ : Overall Height	mm	71			
Weight	approx. kg	0.3			0.4
PERFORMANCE DATA					
Overload Flow Rate	Q ₄ m3/h	3.125			5
Permanent Flow Rate	Q ₃ l/h	2.5			4
Transitional Flow Rate	Q ₂ l/h	50H/100V			80H/160V
Minimum Flow Rate	Q ₁ l/h	31.25H/62.5V			50H/100V
Starting Flow	l/h	4			6
Measuring Range H/V	Q ₃ /Q ₁	R80H/R40V			
Temperature Class Mat	°C	30; 30/90			
Pressure Rating Map	bar	16			
Flow Disturbance Class		U0/D0			



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 ³)
Display Range	99,999.999 m ³
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	

TYPICAL PRESSURE LOSS



For more information

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