Honeywell Water Metering

S110

Product Specification

Application

The S110 is a single-jet inferential water meter that operates on the velocity principal, where a jet of water enters the measuring chamber and in turn drives a rotor. The velocity of the rotor is proportional to the flow and the only component that is exposed to the water is the rotor. Water movement is transmitted directly by a magnetic coupling to a dry dial register.

The S110 is suitable for warm water services with temperatures up to 90°C and a maximum working pressure of 1600~kPa.

Counter registration is in cubic metres (m³) and litres.

Each S110 meter is tested for accuracy before delivery and supplied as standard with a set of male screwed BSP brass connections. An integral non-return valve is provided in the outlet end of the meter.

This meter is WaterMark and NMI approved





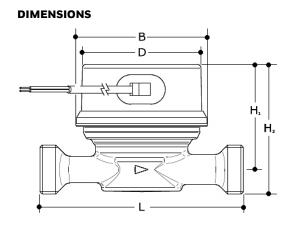
KEY FEATURES

- Single-jet PICOFLUX EP dry dial meter
- Integrated potential-free pulse output
- Warm water up to 90° C
- Permanent / Continuous flow rate of $Q_3 = 1.6 \text{ m}^3/\text{h}$
- Meter length = 115mm
- WaterMark Approved GW-WM-0402430-I01-R02
- **NMI Approved** (NMI-14/3/48)
- EU-type examination certification: DE-11-MI001-PTB009

S110 PERFORMANCE

NOMINAL METER SIZE (DN mm)			DN15
METER THREAD SIZE		inches	G 3/4" B
PERMANENT / CONTINUOUS FLOW RATE	Q_3	m³/h	1.6
STARTING FLOW (APPROXIMATE)		l/h	8.0
OVERLOAD FLOW RATE	Q_4	m³/h	2.0
TRANSITIONAL FLOW RATE	Q_2	l/h	64
MINIMUM FLOW RATE	Q_{1}	l/h	40
FLOW CAPACITY AT 1 BAR PRESSURE LOSS		m³/h	2.5
MEASURING RANGE (MID)	Q_3/Q_1	H/V	R40
ACCURACY CLASS WARM WATER			Class 2 ± 3% / ± 5% (Low Flow)
MAXIMUM ADMISSIBLE TEMPERATURE		°C	Cold Water = 30° / Warm Water = 90°
MAXIMUM ADMISSIBLE PRESSURE		KPa	1600
MECHANICAL CLASS			M1
PROTECTION CLASS		IP	54
MAGNETIC PROTECTION			EN 14154-3
MIN. STRAIGHT LENGTH OF INLET/OUTLET PIPE			Upstream = 0 / Downstream = 0
NMI PATTERN APPROVAL		Number:	14/3/48
WATERMARK APPROVAL		Number:	GW-WM-0402430-I01-R02

Product Specification





NOMINAL METER SIZE (DN mm)	UNITS	DN15
PERMANENT / CONTINUOUS FLOW RATE Q ₃	m³/h	1.6
METER THREAD SIZE	inches	G ¾" B
OVERALL METER LENGTH (L)	mm	115
OVERALL HEIGHT (H ₂)	mm	71
CENTRELINE HEIGHT (H ₁)	mm	57.5
MAXIMUM DIAMETER (B)	mm	71
DIAMETER AT REGISTER SHROUD (D)	mm	64
BARE WEIGHT - METER ONLY (APPROXIMATE)	kg	0.3

INTEGRATED PULSE OUTPUTS	
PULSE VALUE	10 litres/pulse
SENSOR	Reed switch, potential-free, closing contacts
CONNECTION	Fixed wire, 1.5m length, exit from side of register
CONTACT LOAD	Max. 30 V DC, 50 mA, max. 5 W

For more information

www.elstermetering.com

Elster Metering Pty Ltd Head Office55 Northcorp Boulevard

Broadmeadows Victoria 3047 Australia T: +61 3 9355 2000 E: ElsterVICSales@Honeywell.com

Elster Metering Pty Ltd

(Honeywell)

19 Corporate Drive Cannon Hill Queensland 4170 Australia T: +61 7 3266 7733 E: ElsterQLDSales@Honeywell.com

Elster Metering Pty Ltd

(Honeywell)
Level 3, 2 Richardson Place
North Ryde
New South Wales 2113
Australia
T: +61 2 8536 7400
E: ElsterNSWSales@Honeywell.com

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