



# ECO VALVE METER

Designed for installation on a stop tap or concealed valve

ECO Measurement Capsule + VTZ Manifold + VTZ Connector + Radio AMR Module

- This sub-meter is specially designed for retrofitting on a stop tap or concealed valve
- · The isolator is elegantly integrated into the meter manifold
- Intelligent cartridge system pre-equipped for radio, pulse or M-bus
- · For cold or hot water
- 360° rotating counter, horizontal / vertical installation
- Alerts for leaks, backflow, tampering and battery status

#### **Approvals**

Pattern Approval NMI 14/3/37 WaterMark LN26661 WMTS530 AS/NZS4020 DR AS3565.1





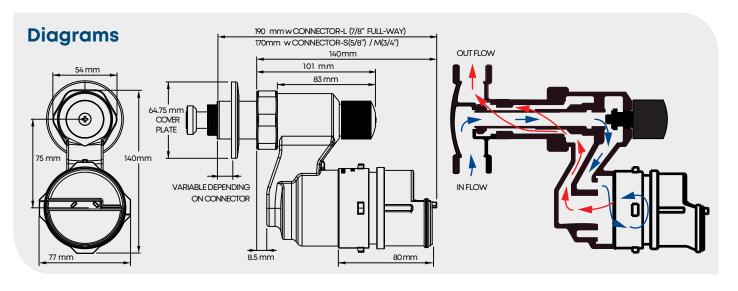


#### **Application**

- This sub-meter is specifically designed for quick, inexpensive retrofitting to concealed valves.
- Different sized VTZ connectors are available to fit various jumper isolator valve bodies so that no re-plumbing, building or repair work is necessary.
- The elegant, disability-friendly design integrates a thumb-wheel isolator into the meter manifold.
- Small and unobtrusive with a high quality gloss chrome finish.

#### **Field of Operation**

Highest display value:	99,999 m³
Lowest display value:	0.0005 m <sup>3</sup>
Minimum flow rate, Q <sub>1</sub> :	0.032 m³/h
Transition flow rate, Q <sub>2</sub> :	0.051 m³/h
Continuous flow rate, Q <sub>3</sub> :	1.6 m³/h
Overload flow rate, Q <sub>4</sub> :	2.0 m³/h
Flow rate ratio, Q <sub>3</sub> /Q <sub>1</sub> :	50
Maximum admissible temperature (Cold):	50 °C
Maximum admissible temperature (Hot):	90 °C
Maximum admissible pressure:	1400 kPa
Pressure loss class:	Δp 63
Accuracy class:	2
Flow profile sensitivity class:	U0/D0
Orientation:	Horizontal / Vertical
Flow direction:	Forward



## **Radio AMR System**

Pulse output: 1 L/pulse
Operating temperature: 0 to 65 °C
Power supply: Lithium battery
Battery life: 12 years
Protection class: IP 65 (optional IP 68)

Radio Frequency:

Maximum transmitter power:

Communication type:

Protection class:

IP 65 (optional IP 68)

918 MHz (Australian ISM)

16mW (range 500 M)

Unidirectional







### Data transmitted during radio transmission:

Current date, time and data for the last 12 months with monthly logs for:

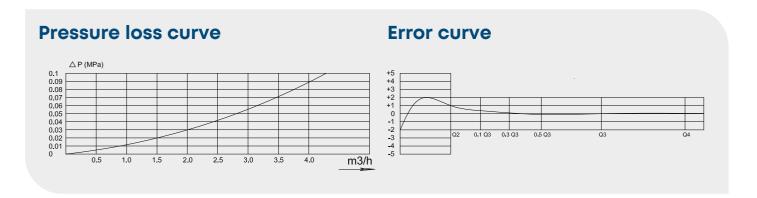
• reading, backflow, leak (baseline flow), tampering, overspeed-flow, battery status, signal strength.

#### **Configurable parameters:**

- counter state (current reading) leak, backflow and overspeed-flow thresholds
- transmitting time for Summer/Winter time, time zone and interval between data transfers

#### **Alternative modules:**

Optical Pulse for 1L, 10L, 100L, and M-Bus modules for wired pulse systems. (LoRa<sup>TM</sup> system under test.)



## **Assembly**

Туре	Code	DN	Connection	Length	Weight
ECO Measurement Capsule - Cold	50030	15/20	2"		445g
ECO Measurement Capsule - Hot	50040	20	2"		445g
VTZ Manifold	23902		2"		1.11kg
VTZ Connector - S (15mm/20mm isolator)	40925		5/8" Whitworth	40mm	189g
VTZ Connector - M (3/4" isolator)	40902		3/4" Whitworth	40mm	198g
VTZ Connector - L (20mm full-way)	40926		7/8" Whitworth	60mm	222g
Radio AMR Module	95400				33g

# **Optional Components**

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Pulse K1 (1L per pulse)	95001	2m cable
Pulse K10 (10L per pulse)	95011	2m cable
Pulse K100 (100L per pulse)	95111	2m cable
M-bus Module		
M-bus device	95002	2m cable











