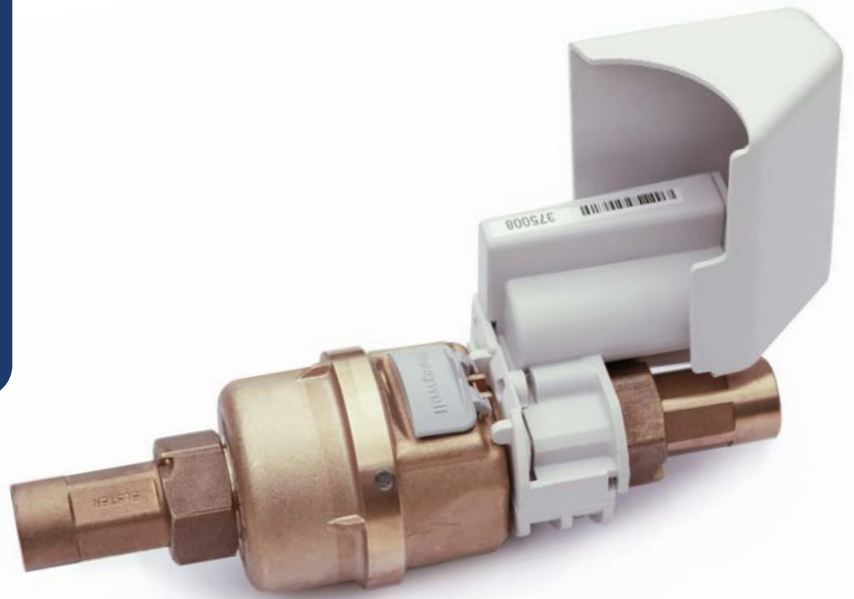


MRC-2 Pulse Counter

25mW Transmitter
for Elster V100
with optional sun shield



KEY FEATURES

- Designed specifically for use with Elster's V100 DN20* water meter
- Low Power (25mW) telemetry device suitable for most radio environments
- Optional clip on sun shield for exposed environments
- 15 year battery life - based on hourly transmissions**
- IP68 rating provides high degree of protection against ingress of dust and moisture
- Light-weight and easy to install
- Suitable for both urban and rural deployments
- Low-cost, low maintenance device

The MRC-2 is a battery powered wireless telemetry unit designed specifically for use with Elster's widely used DN20 V100* water meter. Leverage and maximise the ROI of your existing meters with this compact add on device.

The MRC-2 is a low-power, 25mW transmitting device with proven history in Australia since 2011.

The MRC-2 accumulates flow pulses from a connected device in a low-power, deep-sleep mode, and transmits the accumulated count values at hourly intervals.

The MRC-2 has variants with an expected device life of 15 years**.

The optional sun shield helps protect the battery life where

devices are subject to extreme heat from direct sunlight which can reduce battery longevity.

Transmissions are collected by the Taggle receiver network, which can handle up to 30,000 transmissions per receiver, every hour utilising the 900MHz ISM/LIPD band.

The MRC-2 is fitted with a Hall Effect sensor that outperforms the more widely used T-Probe or reed switch.

HISTORY OF THE MRC-2

The MRC-2 is the second generation of the Taggle MRC-1 Communication Module, which has been in successful deployment across Australia since 2011.

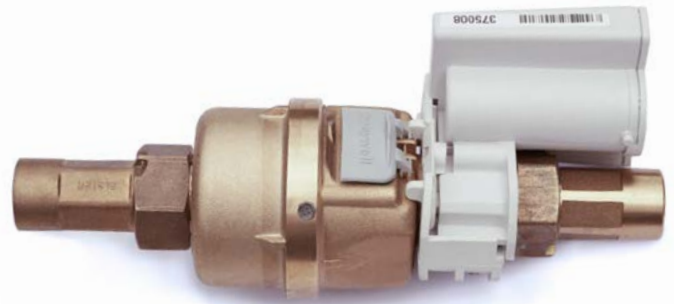
The MRC-1 was named after Mackay Regional Council, who are Taggle's founding smart water customer and who Taggle worked closely with in developing the product.

TECHNICAL DETAILS

Dimensions	89mm (L) (length installed) x 82mm (W) x 79mm (H)
Weight (approx)	210g -250g battery dependent
Enclosure Material	PBT+20%GF
Ingress Protection	Hermetically sealed; IP68
Temperature	-10°C to 55°C (Average temperature not to exceed 30°C)
Sealed	Electronics and battery fully potted

BATTERY DETAILS

Type/Size	3.6 V Lithium Thionyl Chloride Non-replaceable Available in various sizes
Battery life	15 years** <i>Battery life is based on hourly transmissions</i>



SUN SHIELD (OPTIONAL CLIP ON)

Dimensions	110mm (L) x 67mm (W) x 89mm (H)
Weight (approx)	90g

SENSING/INPUTS

Input Types	Hall effect sensor - Magnetic pulse
Maximum Pulse Rate	150Hz



COMMUNICATIONS

ASIC	Taggle Byron A31
Operating Frequency/Band	915-928MHz LIPD band
Signal Type	Direct Sequence Spread Spectrum
Communication Type	One-Way Communication
Operating Range	~2-5km Urban ~5-30km Rural (Dependent on local installation conditions)
Power	25mW

HEAD OFFICE

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* = Honeywell/Elster produce a range of DN20 V100 water meter variants. Please consult with Taggle and/or Honeywell to ensure your meters are suitable for the MRC2.

** = Battery life is average battery life with hourly transmissions with an average temperature between 10°C and 30°C

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