

# Transmitter

## Long Range Pulse

The HWM Long Range Pulse Transmitter, is a low cost, easy to install, durable pulse transmitter that forms part of our Energy Management System, enabling remote visibility of assets such as Gas, Water and Electric meters.

Long battery time, reliable data and rigorous testing allow this market leading transmitter to provide information such as consumption usage for billing, monitoring and targeting. There is a choice of transmitter types to suit all applications e.g. dual input, ATEX (in a different housing) certified versions and Temperature available.

Pulses will never be lost as total pulse count is accumulated and transferred. Data can be forwarded via GPRS, Ethernet or direct wire (Pulse or Modbus) using a choice of receivers directly into customers' BMS, servers or HWM-Online data services for access to raw data (historic and current) visualising energy use meter.

### Key Features and Benefits

- **Easily integrated:**  
Ideal for retro-fit applications
- **Simple to install:**  
Configuration-free + Optional wall brackets
- **Long term monitoring:**  
Up to 10 year Battery Life
- **Robust, Durable and Reliable:**  
IP68 Rated
- **Flexible Install:**  
ATEX (different housing) & Subterranean (different housing) Versions
- **Multiple inputs:**  
Dual Inputs and Temperature options
- **Choice of Frequencies:**
  - Exclusive UK RF Licence: 153.1000MHz
  - European Frequency: 169.40625MHz



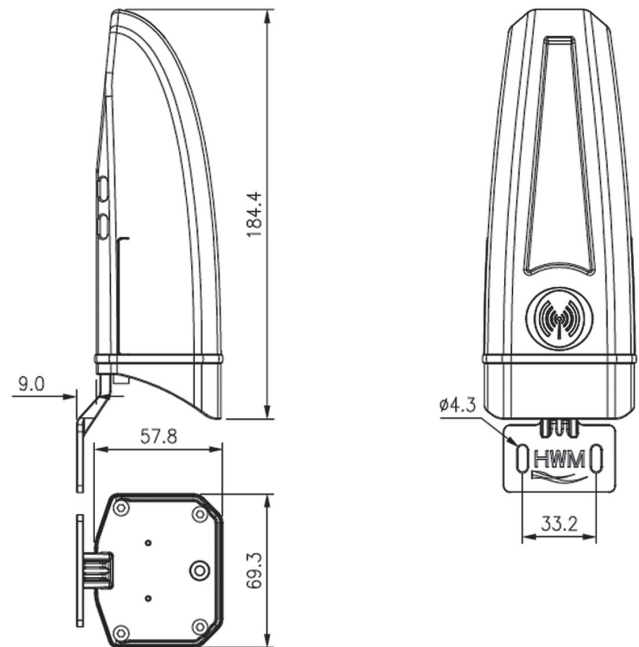
### Applications

HWM's Energy Management System is used successfully by Facilities Managers and Utilities Suppliers worldwide to facilitate the transformation of energy pulse data into useful information.

It has been dependably used for City-wide AMR projects as well as sub metering in Apartment Blocks, International Airports, Shopping Centres and Nation-wide Property Portfolios.

# Transmitter

## Long Range Pulse



### Transmitter features

	153.1000 MHz	169.40625 MHz
Output Power	Up to 500mW (Typ. 250mW)	Up to 500mW (Typ. 250mW)
Range (Line-of-Sight)	2km	2km
Dimensions (L x W x D)	185 x 67.5 x 56 mm (Approx.)	185 x 67.5 x 56 mm (Approx.)
Operating Temperature Range	-10°C to +40°C	-10°C to +40°C
IP Classification	IP68	IP68
Transmission Interval	15min (Other Tx Times Available)	15min (Other Tx Times Available)
Battery Life-Time	Up to 10years (Lithium Cells)	Up to 10years (Lithium Cells)
Weight	375g (approx.)	375g (approx.)
Mounting	Optional Wall Bracket	Optional Wall Bracket

### Pulse characteristics

	153.1000 MHz	169.40625 MHz
Pulse Width (Min)	>1ms	>1ms
Pulse Frequency (Min)	0.1Hz	0.1Hz
Pulse Frequency (Max)	10Hz	10Hz
Logic '0' (Closed)	0.0V to +0.5V	0.0V to +0.5V
Logic '1' (Open)	+3.3V to +5.0V	+3.3V to +5.0V

### Approvals

	153.1000 MHz	169.40625 MHz
Radio (R&TTE)	EN300-220	EN300-220
CE (LVD)	EN60950	EN60950



All Images, text and designs are protected by international and UK copyright law, and remain the property of HWM. It is against the law to copy or use any of the content from HWM website or literature without the written consent of HWM. HWM Water Ltd. reserve the right to vary the specification. **Issue 1. 06:2017**

### HWM Water Limited

Ty Coch House  
Llantarnam Park Way  
Cwmbran  
NP44 3AW  
United Kingdom

Tel: +44 (0) 1633 489 479  
Fax: +44 (0) 1633 877 857  
Email: [sales@hwm-water.com](mailto:sales@hwm-water.com)

MONITORING ASSETS, DELIVERING DATA, BRINGING CONTROL

[www.hwmglobal.com](http://www.hwmglobal.com)