

Transmeter

Telemetry Wastewater Meter Specifications

Product Details

- Flame retardant, UV stabilised, water and shock resistant polycarbonate enclosure (grey) 250mm x 150mm x 100mm (w x h x d)
- IP54 (or better, when power and connectors are attached)
- 2014/35/EU (Low Voltage Directive) compliant
- Power supply unit (AC-DC plug pack) supplied, with optional extension cable. Input: 100-240V~50/60Hz. Output: 12VDC
- Internal voltage rectification (step-down converter) allows for long distance from power socket to TransMeter unit
- Hardware resistors to rectify pulse signal
- Quad-core ARM Cortex-A7 processor
- 512MB DDR3 RAM
- 8GB eMMC storage
- WiFi 802.11b/g/n
- Working temperature -10°C to 40°C (place in the shade for greater longevity)
- Screw-fit data socket
- Replaceable fuse
- Waterproof and dust proof vent with microporous membrane (450ml/min airflow)
- Red and green LED with defined patterns to indicate system state (refer to Installation Manual)

Data Management

- Data is uploaded to the Transmeter Limited Servers once every minute if a WiFi connection is present. The servers are secure and reliable, with multiple backups and redundancies.
- If a WiFi connection is not present, the TransMeter unit holds the data for up to 31 days, provided the TransMeter continues to be powered on, and then uploads it once a connection becomes available.
- Battery backup options are available if security through power outages is required.
- Data on the servers can be viewed through the TransMeter Web Portal and reports can be generated on demand.
- A range of reports can also be automatically generated and sent out by email.
- Alert triggers can be set, so that alerts are sent to one or more email recipients and one or more text messages can also be sent. There is an option to set times during which text messages are not sent, for each recipient (e.g. nights and/or weekends).
- Multiple contacts can be entered and consent data and photographs etc. stored within the portal.

- Per-minute flow records are retained on the server for two years. Daily flow volumes are retained permanently (whilst a subscription is maintained). Full datasets can be sent on request.

Requirements

- Standard three pin power socket
 - Weather protected, within 20m of the TransMeter unit
- WiFi connection
 - Transmeter Limited can assist or provide advice on alternative options (for example 3G/4G)
 - A device with WiFi capability and a browser (such as a tablet or mobile phone) must be used to set up the WiFi connection to the TransMeter device (refer to Installation Manual)
- Pulse water meter to be installed in the discharge pump out line
 - Typically supplied by Transmeter Limited as a 25mm or 32mm Composite ARAD M Multi Jet Water Meter, which has a physical dial and a reed-switch activated pulse every litre
 - The ARAD meter is pre-wired by TransMeter Limited with a screw-fit connector to connect to the TransMeter unit. The length of the data cable must be specified, i.e. the distance between the TransMeter unit and the water meter
 - Other meters can be used, to provide for different levels of wastewater treatment and accuracy requirements
 - In accordance with the Plumbers, Gasfitters, and Drainlayers Act 2006, the installation of a meter into a drainage line must be undertaken by a licenced drainlayer
 - In common with all water meter installations, the meter should be installed in such a way that it remains full of water at all times, and with lengths of straight pipe either side of the meter (refer to Installation Manual for more details)
- Location to mount TransMeter unit
 - E.g. a wall or a post. It is affixed using screws
 - For the greatest longevity, a sheltered location is preferred
- Payment of a subscription is required for the use of the servers and Transmeter Web Portal

Warranty

- One-year return to base as standard
- Four-year warranty extension available
- Lease options are available, where ownership and repairs and upgrades are the responsibility of Transmeter Limited

Contact Details

TransMeter Limited
 PO Box 655, Oneroa
 Waiheke Island, Auckland 1840
support@transmeter.nz
www.transmeter.nz
 p: +64 (0)9 974 4565
 m: +64 (0)27 499 0646