

SMART WATER METER



Remote Reading

SMT 301C

Electronic Smart Water Meter

Features

- ✓ Data transmission on demand and in real time.
- ✓ Automatic data transmission programming available.
- ✓ Detection and management of events related to the meter's status such as: Battery Power, Flow Direction, Loss Detection.
- ✓ Detection of attempts to mechanical and electromagnetic fraud and automatic alarm transmission.
- ✓ Low power consumption and three modes of battery management:
Power Down (2uA); - Sleep mode (17uA);
Normal functioning (25uA).
- ✓ High-precision electronic measuring thanks to Hall sensors.
- ✓ Radio communication distance up to 1200m in open area.
- ✓ Easy configuration and installation of the meter.

Services

The use of the Smart Meter SMT-301 makes possible the fruition of the following services:

1. Water consumption control service: it pertains to the company entrusted with the water provision and/or to the building managers. The consumption can be read at a distance and in real time.
2. Maintenance service and system management: it allows to detect any faults, damage and loss indicating the place and type of malfunctioning

System

The wireless system for the remote control of water meters consists of:

4. Water meter - Smart Meter SMT-301
5. GSM/GPRS data concentrator
6. PDA enabled to receive and process data

These three elements can be combined to provide solutions that can be implemented and adapted to any demand. The number of the meters managed is potentially infinite, there is no maximum limit for the concentration of the items by area.

Here are some examples of the combinations most requested:

4. A network that consists of Meters + Concentrator. With this solution the network is managed directly by mobile phone.
5. A network that consists of Meters + PDA. It requires the presence of an agent using a PDA that collects remotely the meter data in a local area. The data can be stored, processed and eventually notified via GSM/GPRS.
6. A network that consists of Meters + Concentrator + PDA.

It allows the data collection in the concentrators and the notification to the PDA, wherever it may be located, via GSM/GPRS. The PDA functions as a central server and can be connected with any third party devices used by the operator.

Components

