



Smart Gas Meter

SMS Group

Main Features

Flexible future proof

- Available as either Standard or Top Viewing Index (TVI)
- Interoperability with Smart Electricity Meters and In Home Display Units (IHDU)
- Low power, electronic solid state, GWi hall effect sensor (Patent pending)
- High tech / state of the art electronic design with high quality components
- In service replacement of communications
- Remotely upgradeable firmware
- Design in accordance to smart meter specifications

Technical Data

Meter Specification

- Connection Centres: 152.4mm
- Capacity Qmin: 0.12 m³/h
- Capacity Qmax: 6 m³/h
- Cyclic Volume: 1.2/2.0 dm³
- Meter specification
 - Weight: 2,7 kg, Dimensions: 281 (H) x 235 (W) x 172 (D)
- Index specification
 - Weight 0,270kg, Dimensions: 94 (H) x 142 (W) x 45 (D)
- Powdercoat RAL 9010
- Stainless steel band

Index Specification

- Battery: 1 x 3.6V/8Ah, Lithium Thyonyl-Chloride, C type
- Min. 15 years battery life
- Backup battery (30 days)
- Real time battery life monitoring
- Operating temperature range: -20°C to +55°C
- Real time clock accuracy: ±0.5s/day
- Water and dust protection IP54 (IEC 60529)
- Individual battery and communication compartments
- 2 button user interface:
 - Menu functions
 - Valve control
- Large and clear view enabling LCD display with backlight illumination
- Integral valve for closing and opening of the gas flow:
 - Closing: remote command, configurable tamper and battery failure
 - Safe reopening: through end user manual confirmation by pressing valve control button
- MID approved, ATEX approved category 3

Measurement

- Proven and reliable diaphragm gas meter
- High accuracy 3 point calibration throughout the flow range (Qmin, 0.2Qmax, Qmax)
- Register and calculation of the:
 - Volume at measuring condition [m³]
 - Corrected volume [m³]
 - Volume at base condition [m³]
 - Energy [kWh]
 - Instantaneous flow rate [m³/h]
 - Maximum demand (peak flow)
- Measurements displayed to 1 litre resolution (0.001 m³)

Smart Features

Data management

- Configurable up to 48 time-of-use tariffs
- Profile recorder
 - 2 channels with independently configurable data capture
 - Channel 1:
 - Designed for general energy measurement
 - Configurable intervals (6,10,15,20,30 and 60 minutes)
 - Capacity: 13 months/half hour/1 register
 - Channel 2:
 - Designed for billing profile
 - Configurable intervals (day, week, month or specific day)
 - Capacity: 13 months/monthly/consumption and tariff registers
- Data logger with five independent FIFO buffers (up to 50 events)
 - General (informational, clocks, schedules...)
 - Fault (general system faults)
 - Security (password activities)
 - Communications (session statistics)
 - Valve control (opening, closing...)
- Configurable AUTO and MANUAL scroll sequence with up to 16 entries
- Firmware upgrade through RF communication channel
- Optional prepayment feature

Tamper protection

- 30 day backup battery (to support logging and clock maintenance)
- Supervision of the battery capacity and generating alarms in case of crossing low or failure level capacity
- Communication and battery tamper protection through compact housing design
- Valve closure upon tamper detection
- Detection of the external magnetic field
- Data logger and display alarms

Communication

- Optical interface according to the IEC 62056-21 (C mode) for reading and parameterization of the smart gas index
- User friendly software package for reading, calibrating and parametrizating for PC and Hand Held Units
- Communication module universal interface for various connections Wireless MBus, ZigBee RF
- Able to communicate with HDU if required
- Flexible communications platform















Customer ID colour available Standard colour: Grey



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