COMlog IS

Intrinsically Safe Data Logger

COMlog IS is an intrinsically safe, highly versatile data logger designed to be a multi-application data logging solution.

COMlog IS is designed to be mounted in close proximity to either a commercial or domestic gas meter, but can also be used on any other utility meter that has a pulsed output.

Particularly effective in smart metering, COMlog IS provides businesses with an effecient way of managing gas and energy consumption and reducing costs.

Key Features and Benefits

- **Intrinsically safe:** certified for use in Zone 0 hazardous areas: Intertek ITS19ATEX205070X & IECEx ITS 19.0030X Ex ia IIC T4 Ga (-20°C ≤ Ta ≤ +60°C)

- **Telemetry:** NBIoT LTE-based cellular communication standard with fallback 2G capability

- **Excellent value:** reliable and cost-effective

- **Accessible data:** near real-time data at low cost

- **Flexible alarm modes:** High Flow, Low Flow and Profile Alarms

- **Easy integration:** designed for easy integration into 3rd party software applications via DataGate API

- **Online data viewing:** via HWM Online - the multi-utility data monitoring system

- **Long term monitoring:** typical 5 year battery life

- **External antennas:** support improved signal strength - contact HWM for more information

- **Wireless programming:** units can be upgraded and programmed without the cost of a site visit

Applications

COMlog IS uses accumulative pulse counting technology to calculate index readings against a known volume.

COMlog IS transmits data through an integral modem with GPRS/2G, 4G, LTE-M (Cat-1) and other NBIoT cellular options available.
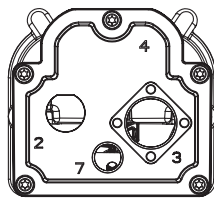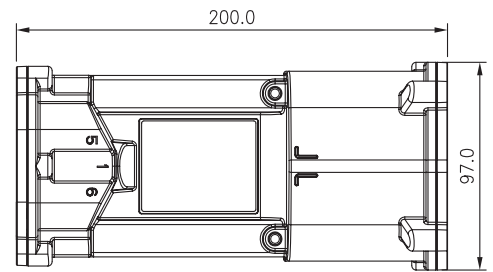
The robust system is supplied with many features, including: Fast logging for high-level consumption analysis, a range of comprehensive alarms, the ability to upgrade and programme over-the-air without the cost of an onsite visit and the device being fully sealed and submersible to IP68.

COMlog IS
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200.0

97.0

88.0

PCBA LID
VARIANT 1

PCBA LID
VARIANT 2
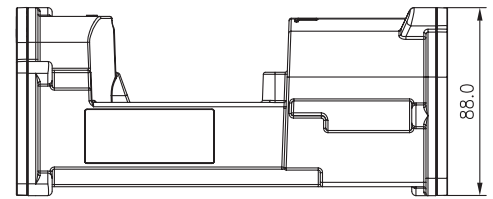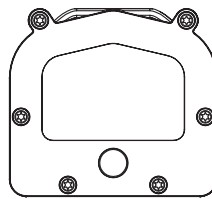
Logger Features

Rating	ATEX/IEC certified to Zone 0
Memory	Primary recording 2 million readings (larger sizes available on request). Future proof in-field local and remote upgradable software
Analogue	Variable sample rate 5s to 24hrs
Alarms Logger ID	Multiple Lower/Upper Limit, Min Flow, Rate of Change, Channel Difference, In/Out of Band alarm types
Clock	On board 24 hour synchronized real time clock with date facility
Secondary Channel	Can be programmed to record either fast data, average minimum, average maximum or time interval between pulses (for data smoothing)
Internal Cellular Modem	Cellular modem supporting 2G/3G/NBIoT/LTE-M (Cat-1) with SMS backup where available - contact HWM for available options
Dimensions	200H x 97W x 88D (mm)
Weight	1kg
Operating Temp.	-20 to 60°C (-5 to 140°F)
Ingress Protection	IP68 submersible
Power	User-replaceable Lithium Thionyl-Chloride battery pack operational for 5 years under standard operating conditions

Communication

Accelerated Dial-in	Dial-in rate is increased if alarm situation is triggered. Logger can accelerate dial-in at alarm level for multiple applications - including SonicSens, Flow, Pressure and other alarmed sensors.

Sensor Input

Digital	Up to 4 user configurable pulse/status inputs

Contact closure type or other pulse input

Up to 128 pulses per second |

Control Output Ports

Digital	2 independent configurable outputs

HWM

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MONITORING ASSETS, DELIVERING DATA, BRINGING CONTROL