

RTQ-1000™

Portable ATEX GPRS Logger



RTQ-1000™

The RTQ-1000™ is an ATEX certified real time flow logger and transmitter, connecting directly to the non-contact open channel flow sensor RAVEN-EYE® for use in hazardous areas Zone 1.

The RTQ-1000™ has the capability of transmitting the flow data with all associated quality parameters, raw level, velocity, distance, temperature and FFT's from most manholes without special manhole cover, into the Internet using GPRS data communication technology (requires customer's GPRS activated SIM card).

Data is available for the visualization and download in Excel (.csv) format from any Internet browser using our secured 123flow.com Internet platform, or using your own dedicated FTP Server with associated optional 123flow server software.

The RTQ-1000™ can also be used as a standalone RAVEN-EYE® data logger. Measuring site configuration and data download can then be done with the USB cable using the RTQ-Log PC software. E-mail alarming included, SMS alarming available as an option. Automatic data transfer to existing data base is possible using the optional XPATH module.

SMS (option) and E-mail alarming are possible. Automatic Data transfer to an existing data base is possible using XPATH module.

Technical Specifications

Sensor Interfaces

1 interface for open channel non-contact RAVEN-EYE® (ATEX) radar flow sensor

1 loop powered analog 4...20 mA input for external ATEX level sensor

General Attributes (Logger only)

Dimensions	180 Diam. x 241 H mm (with antenna) 180 Diam. x 110 H mm (without antenna)
Material	AlCuMg
Surface	Anodised blue, according EN12373-1
Protection	IP67
Installation	Vertical
Weight	1,35 kg (4,85 kg with battery)
Operating Temperature	-10° to +40 °C
Storage Temperature	-20° to +60°C
Battery charge Temp.	0° to +40°C
Battery Type	AP448A Li-ion rechargeable battery pack 4,1 V/48 Ah (batteries can be replaced in EX zone)
Battery Life	14 weeks ¹ at 20°C ¹ Defined at 5 minutes recording interval and 2 hours transmission interval
Battery Charger	AC-120

Setup/Data Retrieval

Internet platform:

Multilevel password protected web-based platform for remote site & flow meter configuration, data download, data management and report generation for wireless flow meters.

Software:

RTQ-Log PC software is required for site & flow meter configuration, data download, data management, and report generation.

Data format available: .tsv or .csv

Automatic data transfer to existing data base is possible using the XPATH module.

Local Communication

USB for site and logger configuration and data retrieval

Remote Communication

Wireless modem; GPRS technology with a mobile provider (requires GPRS enabled SIM card from provider)

LED Modem Indicator

Flashes green during normal operation

Flashes red when an attached sensor does not agree with the logger program, when an expected sensor is not found, when the sensor is not working properly or the logger has connection issues



AP448A

ATEX Certified Li-Ion Rechargeable Battery Pack

Technical Specifications

Data Storage

Memory	440.000 measurement cycles
Datalog channels	16
Time-based accuracy	±0.002%, synchronized at every transmission with server software and modem

Certifications

Logger & battery	CE
ATEX certification	Ex II 2G Ex ib II B T4
Electromag. protection	EN61326 conformity, emission class A

Accessories

Rechargeable battery AP448A
Charger AC-120
Antenna extension 5m

*Specifications are subject to change without notice
Updated: April 2014*



www.flow-tronic.com

Rue J.H. Cool 19a | B-4840 Welkenraedt | BELGIUM
Tél.: +32 (0)87 899 799 | Fax: +32 (0)87 899 790
E-mail: info@flow-tronic.com