

# RTQ-500™

GPRS Logger for RAVEN-EYE®



The RTQ-500™ is a real time flow logger and transmitter, connecting directly to the non-contact open channel flow sensor RAVEN-EYE®.

The RTQ-500™ 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-500™ 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.

## Technical Specifications

### Supported Sensor

Open Channel Non-Contact RAVEN-EYE® Radar Velocity 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 red, according EN12373-1
Protection	IP67
Installation	Vertical
Weight	1,35 kg
Operating Temperature	-10° to +40 °C
Storage Temperature	-20° to +60°C
Battery charge Temp.	0° to +40°C
Battery Type	AP448 or AP448PC rechargeable Lithium-Ion 48 Ah
Battery Life	14 weeks <sup>1</sup> at 20°C <sup>1</sup> 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, .csv & .fs1

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 for data)



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## AP448PC

### Li-Ion Rechargeable Battery Pack

## Technical Specifications

### 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

### 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
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### Accessories (Optional)

Rechargeable battery AP448PC  
Charger AC-120  
Antenna extension 5m

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