IFQ LOGGER™

Portable Logger for RAVEN-EYE® or BELUGA™

The IFQ LOGGER™ is a portable converter and logger for FLOW-TRONIC flow sensors. It disposes of one RS485 digital serial communication port with specific communication protocols for RAVEN-EYE® or BELUGA™ flow sensors and one 4-20 mA input for external level.

The features of the IFQ LOGGER™ include a direct USB communication to setup and configure the flow measuring system. It allows real-time measurements with direct velocity distribution and signal analysis.

The IFQ LOGGER™ disposes of a local display to review latest recorded values. A wake-up function permits to switch on the display between measurements and read data.

The standard unit includes a trigger and alarm function. Up to 10 alarms can be configured. Occurrences are recorded on the SD card memory.

The IFQ LOGGER™ can optionally be equipped with a 2G/3G data transmission modem. Data is sent to e-mail addresses or to a FTP server. Alarms can be sent via text message or by e-mail.

Technical Specifications

Sensor Interface
1x RS485 digital sensor interface for RAVEN-EYE® or BELUGA™
1x 4-20 mA analog input for level sensor
Compatible sensors: ULS-02, ULS-06, PLS-02, RLS-15

Setup & Operation
7 position sealed membrane keypad.
Possibility to configure level offset, units, language through keypad.

Setup & configuration of the system through USB communication port using RTQ-Log software for Windows.

Available units:
Flow: l/s, m³/h, m³/s, gpd, gpm, cfm
Velocity: cm/s, m/s, fps
Level: mm, cm, m, inch, feet
Total flow: l, m³, g, cf

Available languages: EN, DE, FR, SP, RU, etc.

Display & LED
144x32 pixel white-on-blue graphical display with wake-up function.
Two lines of text display scrolling between: FLOW, VELOCITY, LEVEL and TOTAL FLOW.
Internal battery status indication.
6 status indication LEDs.

Logger
Memory 2 Gb (13 years of data at one minute logging interval)
Memory Type Flash memory (SD card)
Datalog Channels 19
Time-based accuracy < 1s/day
Data format available .tsv

Contact Closure (optional)
1x relay/SPST-NO flow proportional output
Rating: max. 2A @ 30 VDC

Communication protocol (optional)
Modbus RTU (slave) over RS485 communication port

Data Transmission (optional)
World-wide Penta-band UMTS/HSPA engine (GPRS or 3G)
- GSM: 850/900/1800/1900 MHz
- UMTS: 800/850/900/1900/2100 MHz
- CSD with up to 14.4 Kbps
Data files are sent directly to a FTP server or to e-mail addresses
Data format type: .tsv or .csv
Technical Specifications

Power Supply
DC  9 to 26 VDC

Enclosure
Dimensions  235 mm W x 192 mm L x 112 mm D
Weight  1.5 kg
Material  PPC (Polypropylene Copolymer)
Protection  IP67
Max. humidity  90% r.H. (non-condensing)

Environmental Conditions
Operating temperature range  -25 to +55°C
Storage temperature range  -30 to +65°C

Specifications are subject to change without notice
Updated: July 2017