IFQ MONITOR™

Monitor for RAVEN-EYE® and BELUGA™ flow sensors

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The IFQ MONITOR™ is a user friendly monitor and converter 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.

Secured data

All data gathered by the flow measuring system is stored on a logger inside the IFQ MONITOR™. The logging system is constituted of 2 different flash memories. One internal 4 Mb backup memory and one memory on SD card providing 2 Gb of memory and up to 32 Gb depending on the memory card inserted. The data is stored as .tsv files on the memory card (one file per month for ease of data treatment).

Data transmission & alarm schedules

The IFQ MONITOR™ provides various features when it comes to data transmission. All data can be transmitted either on a FTP server or by e-mail. RTQ-Log software permits to program all transmission schedules. Multiple user groups and receivers can be configured. Moreover, alarm schedules can be programmed. The alarms can also be sent via text message (SMS).

The integrated modem is quite versatile and can be used with standard SIM cards either 2G (GPRS) or 3G enabled.

www.flow-tronic.com

Technical Specifications

Sensor Interface
1x RS485 digital sensor interface for velocity sensor
1x 4-20 mA analog input for level sensor

Setup & Operation
7 position sealed membrane keypad.
Configuration of level offset, units, output ranges & language through keypad.

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, etc.

RTQ-Log software through direct USB communication (optional)

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

Outputs
Three 4-20 mA outputs, max. load 250 Ω.
Outputs are FLOW, LEVEL and VELOCITY.

Logger (optional)

Memory	2 Gb (13 years of data at one minute logging interval)
Memory Type	Flash memory (SD card)
Datalog Channels	18
Time-based accuracy	< 1s/day
Data format available	.tsv

Contact Closure
1x relay/SPST-NO output for TOTAL FLOW.
1x relay/SPST-NC output for FAULTY alarm based on auto-diagnostic system of RAVEN-EYE®.
Rating: 6A at 30 VDC / 6A at 250 VAC

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 can be sent directly to a FTP server
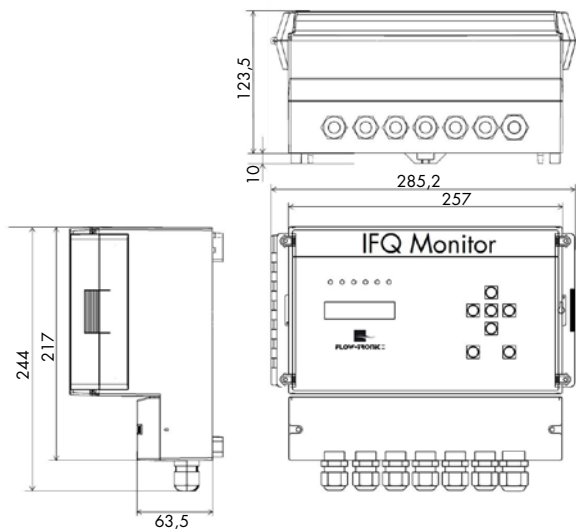Data format type: .tsv or .csv

Communication
Modbus RTU (slave) over RS485 communication port

Power Supply
DC   9 to 28 VDC
AC   85 to 265 VAC, 47 to 63 Hz

Enclosure
Dimensions   257 mm W x 217 mm L x 123,5 mm D
Weight   2,25 kg
Material   ABS plastic
Protection   IP65, NEMA 4
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: May 2016