

# IFQ MONITOR

Monitor for RAVEN-EYE®, BELUGA  
and PHOENIX flow sensors



## IFQ MONITOR

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®, BELUGA or PHOENIX 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 an 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](http://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, m<sup>3</sup>/h, m<sup>3</sup>/s, gpd, gpm, cfm

Velocity: cm/s, m/s, fps

Level: mm, cm, m, inch, feet

Total flow: l, m<sup>3</sup>, 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

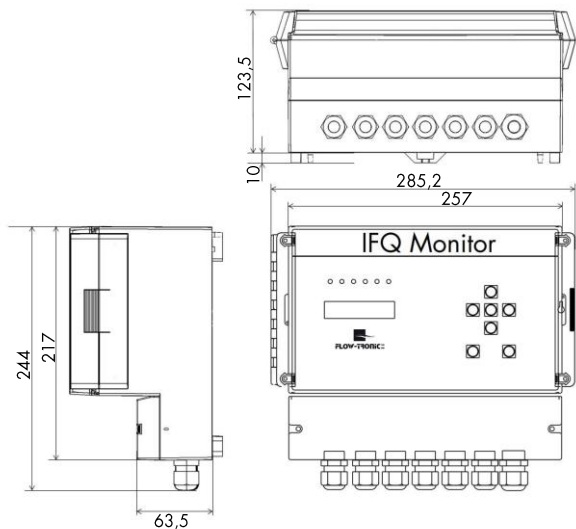
### Communication (optional)

Modbus RTU (slave) over RS485 communication port

Chemin des Tilleuls 32 | B-4840 Welkenraedt | BELGIUM

Tél.: +32 (0)87 899 799 | Fax: +32 (0)87 899 790

E-mail: [info@flow-tronic.com](mailto:info@flow-tronic.com)



### Power Supply

DC 9 to 28 VDC (ATEX min. 10V)  
 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



**FLOW-TRONIC** nv

[www.flow-tronic.com](http://www.flow-tronic.com)

*Specifications are subject to change without notice  
 Updated: May 2020*

Chemin des Tilleuls 32 | B-4840 Welkenraedt | BELGIUM

Tél.: +32 (0)87 899 799 | Fax: +32 (0)87 899 790

E-mail: [info@flow-tronic.com](mailto:info@flow-tronic.com)