

# IFQ MONITOR 1.5

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



## IFQ MONITOR 1.5

The IFQ MONITOR 1.5 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.

The IFQ MONITOR 1.5 comes with two 4-20 mA outputs and one Modbus RTU communication port (optional) for easy integration.

### Secured data

All data gathered by the flow measuring system is stored on a logger inside the IFQ MONITOR 1.5. The logging system is constituted of 2 different flash memories. One internal 64 Mb backup memory and one memory on SD card (optional) providing 16 Gb of memory and up to 32 Gb depending on the memory card inserted. The data is stored as .tsv or .csv files on the memory card (one file per month for ease of data treatment).



**FLOW-TRONIC**

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

## Technical Specifications

### Sensor Interface

1x RS485 digital sensor interface for velocity sensor

Compatibles sensors: RAVEN-EYE®, RAVEN-EYE® 2(+), BELUGA, PHOENIX or EMV-500

1x 4-20 mA analog input for level sensor

Compatibles sensors: ULS-02, ULS-06, PLS-02, PLS-06, RLS-15, RLS-C21 or any other loop powered 4-20 mA 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.

FUZION software through direct USB communication (optional)

### Display & LED

144x32 pixel black-on-green 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

Two 4-20 mA outputs, max. load 250 Ω.

Outputs are FLOW and LEVEL.

### Logger (optional)

Memory 16 Gb (up to 50 years of data at one minute logging interval)

Memory Type Flash memory (SD card)

Datalog Channels max. 21

Time-based accuracy < 1s/day

Data format available .tsv & csv

### Contact Closure

1x relay/SPST-NO output for TOTAL FLOW.

1x relay/SPDT output for FAULTY alarm based on auto-diagnostic system of sensors (RAVEN-EYE®, BELUGA or PHOENIX)

Rating: 6A at 30 VDC / 6A at 250 VAC

### Communication (optional)

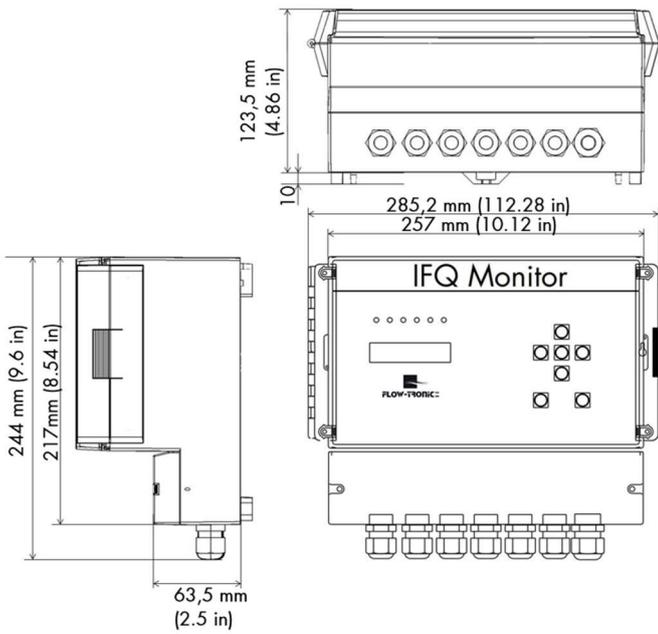
Modbus RTU (slave) over RS485 communication port

### Digital input

1 digital input (Logic high: 8 to 40 VDC ; Logic low: -5 to 3 VDC ; Impedance: 3.3 kohm @ 12V.

Chemin des Tilleuls 32 | 4840 Welkenraedt | BELGIUM

Tel.: +32 (0)87 899 799 | E-mail: [info@flow-tronic.com](mailto:info@flow-tronic.com)



### Transmission (optional)

LTE Cat.4 Engine (Worldwide)

- LTE FDD: 15 bands
- LTE-TDD: 4 bands
- WCDMA: 7 bands
- GSM: Quad-band

Data files can be sent directly to a FTP server

Data format type: .tsv or .csv

### Power Supply

DC 9 to 28 VDC (ATEX min. 12V)  
 AC 85 to 265 VAC, 47 to 63 Hz

### Enclosure

Dimensions 257 mm W x 217 mm L x 123,5 mm D  
 (10.12'' x 8.54'' x 4.62'')

Weight 1,90 kg (4.2 lbs)

Material ABS plastic

Protection IP65, NEMA 4

Max. humidity 90% r.H. (non-condensing)

### Environmental Conditions

Operating temperature range -25 to +55°C (-13 to +131°F)

Storage temperature range -30 to +65°C (-22 to +149°F)



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*Specifications are subject to change without notice*

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Chemin des Tilleuls 32 | 4840 Welkenraedt | BELGIUM

Tel.: +32 (0)87 899 799 | E-mail: [info@flow-tronic.com](mailto:info@flow-tronic.com)