



IFQ MONITOR 2 MANUAL



1 Purpose of this Addendum

This document provides a summary of the main differences between the previous IFQ Monitor version and the new IFQ Monitor 2.0.

It is intended as a temporary supplement to the existing manual. It allows users who are already familiar with the previous version to quickly understand the changes, improvements, and new features of the IFQ Monitor 2.0.

A complete and dedicated manual for the IFQ Monitor 2.0 will be released separately.

2 Key Differences Overview

Feature	Previous Version	IFQ Monitor 2.0
User Interface	Button-based navigation	Touchscreen interface with stylus
Display	Standard display	Interactive display with real-time visualization
USB Interface	USB-A connector	USB-C connector
Outputs	2 analog outputs	3 analog outputs

3 General Information

The IFQ Monitor 2.0 introduces several hardware and usability improvements compared to the previous version.

The most significant change is the implementation of a touchscreen interface, replacing the traditional button-based

operation. This improves usability, navigation, and access to configuration settings.

Additional interfaces such as USB-C enhance data handling and serviceability.

4 Compatibility Notes

The IFQ Monitor 2.0 is designed to be compatible with existing sensor setups.

However, when upgrading from a previous version:

- Wiring should be verified carefully
- Display-Configuration settings may need adjustment
- New interfaces may require additional setup

5 Notes on Transition

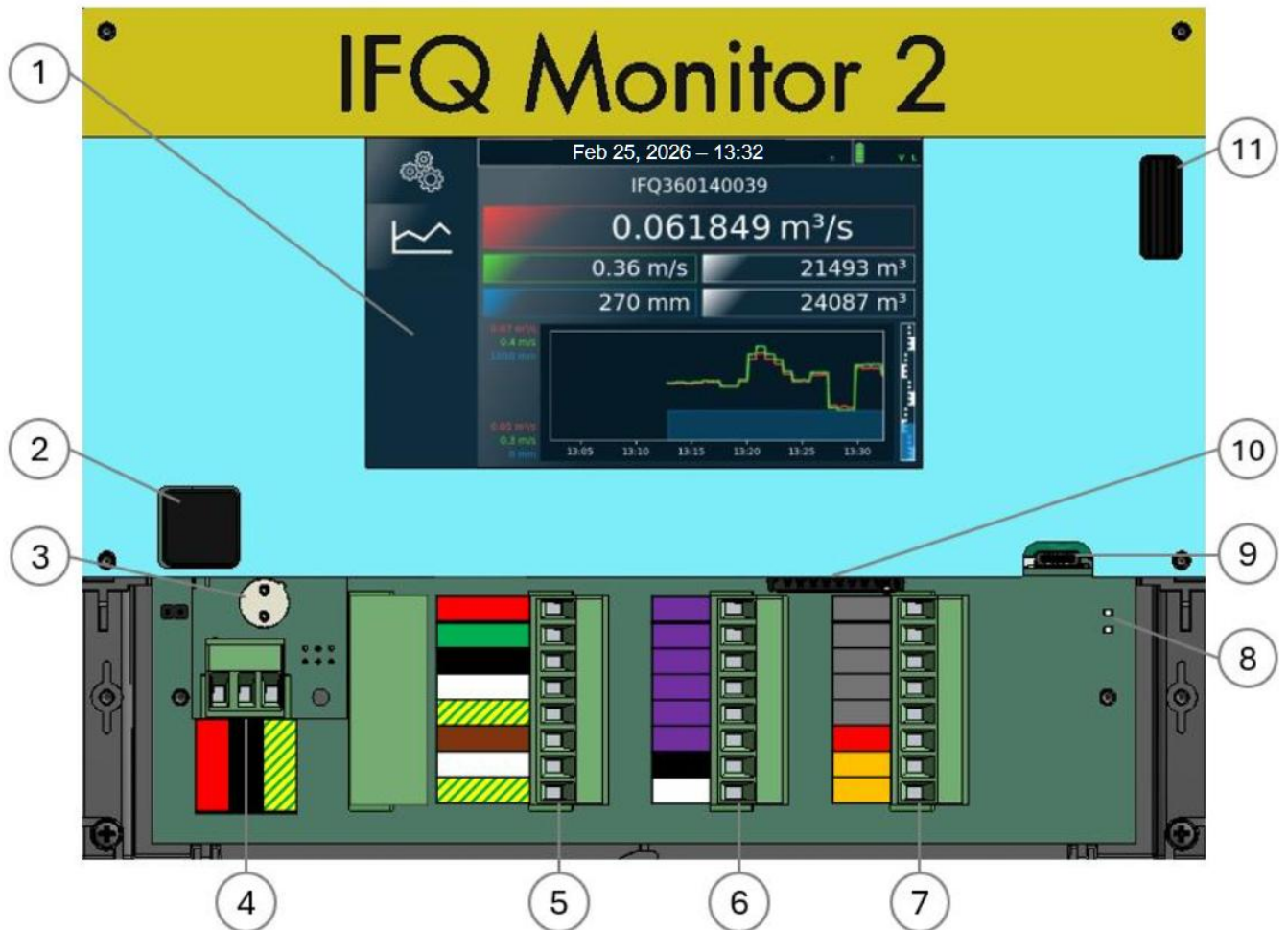
Users upgrading from the previous IFQ Monitor version should pay particular attention to:

- The new touchscreen operation
- Updated wiring layout
- Extended output functionality

While the core measurement principles remain unchanged, the user experience and available features have been significantly enhanced.

6 Hardware Overview

The hardware layout of the IFQ Monitor 2.0 has been updated to include new interfaces and improved accessibility.



1 Touchscreen	7 Outputs Terminal 2
2 Display Sleep Button	8 Status LEDs
3 Fuse	9 USB-C Connector
4 Supply Terminal	10 SD-Card
5 Sensor Terminal	11 Touchscreen Pen
6 outputs Terminal 1	

7 Touchscreen Interface

Unlike the previous version, which relied on physical buttons, the IFQ Monitor 2.0 uses a touchscreen interface.

This allows:

- More intuitive navigation
- Improved visualization of measurements
- Faster access to configuration menus



1 Configuration - Menu	5 Real-Time Measurement
2 Measurement Display	6 Site Name
3 Measurement Graphic	7 Status Indicators
4 level Gauge	8 Date & Time

8 Status LEDs

The IFQ Monitor 2.0 uses two status RGB LEDs to indicate system states and error conditions.

By combining different colors and blinking patterns, multiple statuses and faults can be represented efficiently.

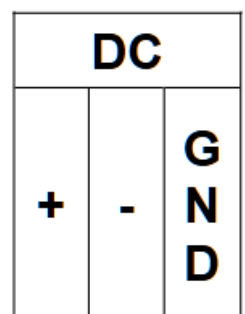
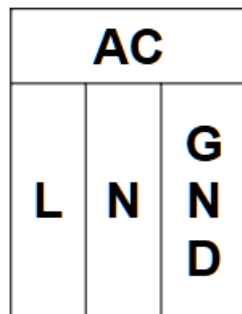
Compared to the previous version, which used six dedicated status LEDs, this approach reduces hardware complexity while maintaining full diagnostic capability.

Status	LED A	LED B
OK (flow)	Blinking	OFF
OK (no flow)	ON	OFF
SD-Card missing	ON	Blinking
Velocity Sensor disconnected	ON	Blinking
Velocity Sensor untight	ON	Blinking
Wrong Sensor programmed	Blinking	OFF
Level Sensor disconnected	ON	Blinking
Level Sensor out of range	ON	Blinking
Pulse output too high	ON	Blinking
4-20mA output out of range	Blinking	ON

9 Wiring

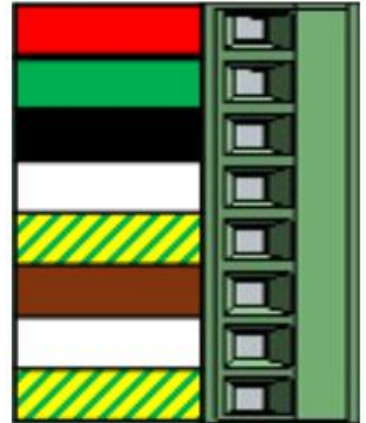
The general wiring concept remains similar to the previous version. However, several extensions and improvements have been implemented.

9.1 Supply Terminal



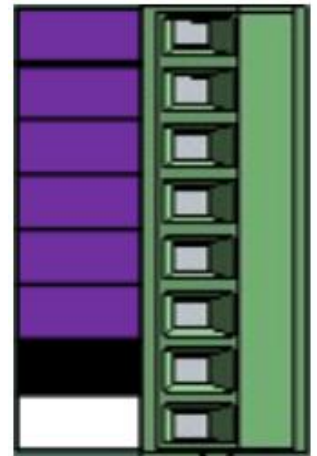
9.2 Sensor Terminal

Vel. +	Velocity Sensor Power Supply +
Vel. -	Velocity Sensor Power Supply -
Vel. B	Velocity Sensor RS-485 B (-)
Vel. A	Velocity Sensor RS-485 A (+)
Vel. GND	Velocity Sensor Ground / Shield
LvL. +	Level Sensor Power Supply +
LvL. -	Level Sensor 4-20mA Signal -
LvL. GND	Level Sensor Ground / Shield



9.3 Output Terminal 1

A0 1 +	4-20mA Analog Output 1 +
A0 2 +	4-20mA Analog Output 2 +
A0 3 +	4-20mA Analog Output 3 +
A0 4 +	Unused
A0 GND	4-20mA Analog Output Ground -
A0 GND	4-20mA Analog Output Ground -
MB-B (-)	RS-485 ModBus Output B (-)
MB-A (+)	RS-485 ModBus Output A (+)



9.4 Output Terminal 2

AL. NO	Alarm Contact Normally Open
AL. C	Alarm Contact Common
AL. NC	Alarm Contact Normally Closed
Tot. NO	Totalizer Pulse Output Normally Open
Tot. C	Totalizer Pulse Output Common
24 VDC	24 VDC Output
DI 1	Digital Input 1
DI 2	Digital Input 2

