



The FLS FLOWX3 F9.20.BD Bi-directional Battery Powered Flow Monitor is equipped with two long life lithium batteries and integrates the power supply for the sensor. It is designed to show on the LCD display flow rate and totalized flow volume with no external power supply required. The instant flow rate can be positive or negative, according to flow direction. Two totalizers (resettable and permanent) are available for positive flow and two totalizers (resettable and permanent) are available for negative flow. Self explaining calibration menus allow customized setup of all measuring parameters and the state of the art electronic design ensures long-term reliable and stable indications.

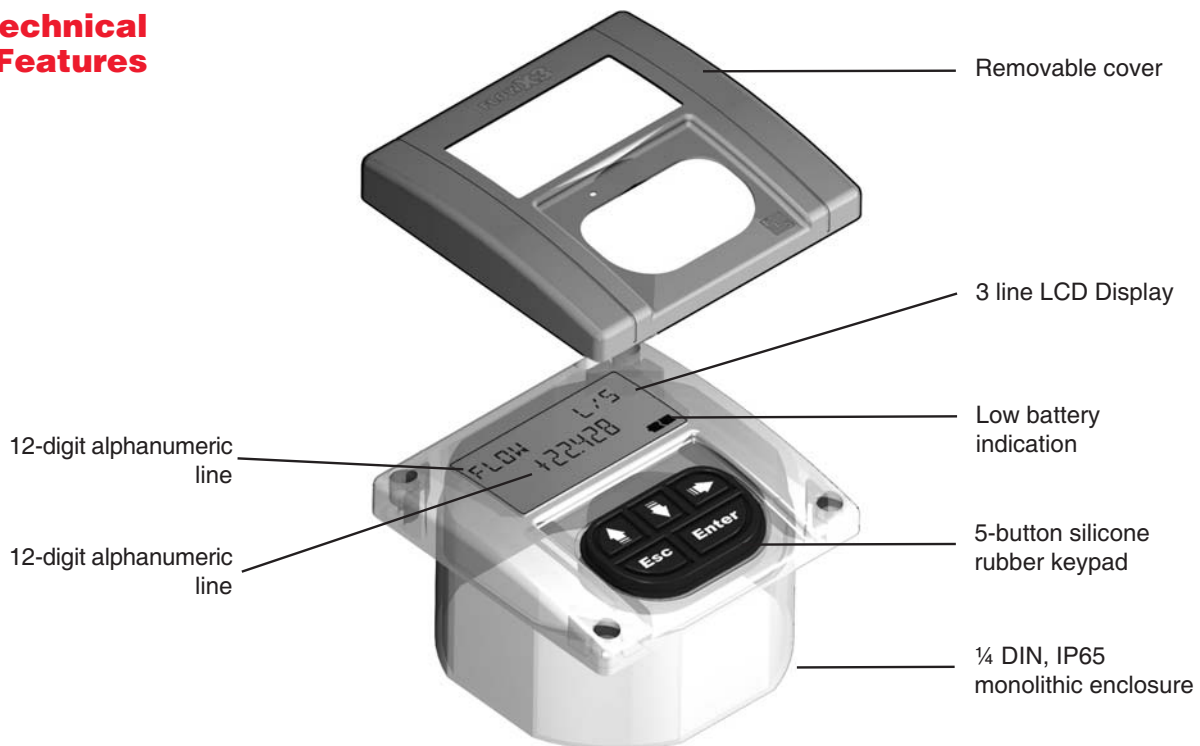
Main Features

- Wall installation.
- Battery operated.
- No information lost during battery replacement.
- Flow rate and direction display.
- 2 resettable totalizers (6 digit).
- 2 permanent totalizers (10 digit).
- Self explaining calibration menu.
- IP65 monolithic packaging.

Applications

- Flow monitoring.
- Water distribution.
- Leak detection.
- Irrigation.
- Filtration systems.
- Groundwater remediation.

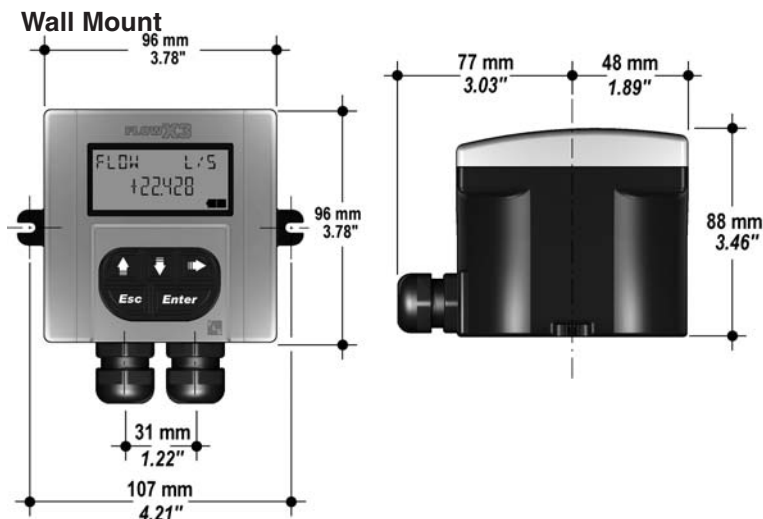
Technical Features



Engineering Data

- The flow monitor is designed for wall installation.
- The instrument is compatible with F111.HT.BD & F3.11.H.BD flow sensors.
- The instrument provides bi-directional flow rate indication and dual totalization (resettable and permanent) for each flow direction.
- The monitor provides a low battery indication and a system to retain all calibration settings during battery replacement.
- The instrument meets IP65 standards.

Dimensions



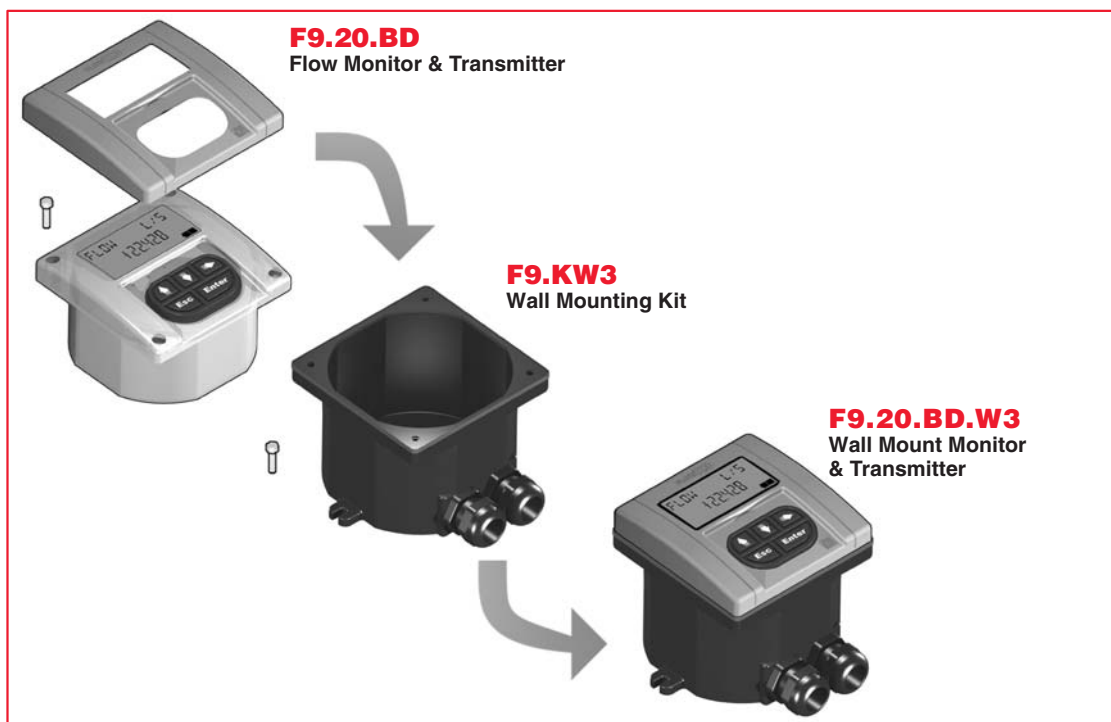
Installation

The flow monitor & transmitter is available just in one packaging for wall installation.

Wall Mount



The wall mounting version consists of the monitor and the wall mounting kit. The F9.KW3 kit includes the plastic adapter, the gasket for IP65 watertight wall installation, the fixing screws and the batteries. The instrument and the kit can be ordered separately (code F9.0X for the monitor and code F9.KP1.2 for the mounting bracket) or together using the code F9.0X.P1.



Input from

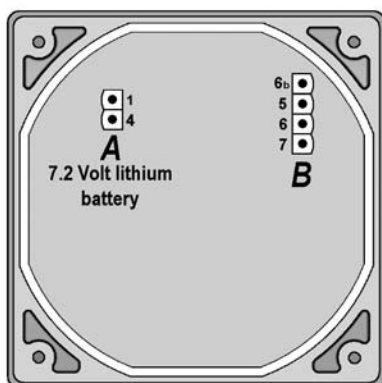


FLS FLOWX3 Flow Sensor (sold separately)

F3.11.H.BD
F111.HT.BD

Rear Terminal View

Terminal F9.20.BD



SENSOR	
6b	DIR
5	GND
6	IN
7	V+
7.2 Volt lithium battery	
A	1 + VDC
	4 - VDC

Technical Data

General

- Associated flow sensor:
 - FLS F 3.11.H.BD
 - FLS F111.HT.BD.
- Materials:
 - Case: PC
 - Panel gasket: Neoprene
 - Wall gasket: EPDM
 - Keypad: 5 button silicone rubber.
- Display:
 - 3 line LCD: 2 x 12 alphanumeric lines and 1 icon line
 - Update rate: 1 second.
- Enclosure: IP65 front.

Electrical

- Supply Voltage: 2 x 3.6 Volt Lithium thionyl chloride battery, 16.5 Ahr.
- Battery life: nominal 2 years.
- Sensor Input (Frequency):
 - Sensor power: 4 Volt
 - Range: 1 ÷ 500 Hz.
 - Accuracy: ±0,5 Hz.

Environmental

- Operating temperature: -5°C to +60°C (23°F to 140°F).
- Storage temperature: -10°C to +80°C (14°F to 176°F).
- Relative Umidity: 0 to 95% non condensing.

Standard & Approvals

- Manufactured under ISO 9001 (Quality).
- Manufactured under ISO 14001 (Environmental Management).
- CE.

Ordering Data

FLOWX3 F9.20.BD

Part No.	Description
F9.20.BD	Bi-directional Battery Powered Flow Monitor

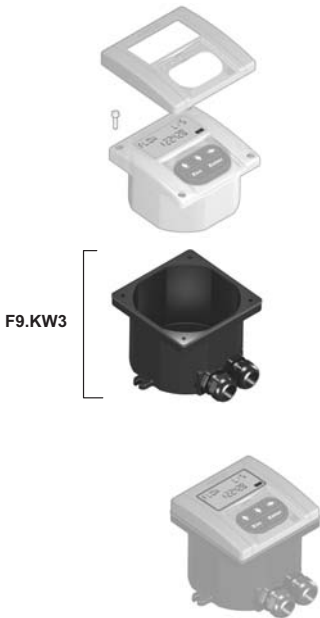
FLOWX3 F9.20.BD.W3 (Wall Mount Version)

Part No	Description
F9.20.BD.W3	Wall Mount Bi-directional Battery Powered Flow Monitor

Ordering Data

Mounting Kits

Part No.	Name	Description
F9.KW3	Wall mounting Kit with batteries included	Plastic adapter with gasket, fixing screws and batteries included



Spare Parts

Item	Part No.	Name	Description
1	F9.SP3	Cover	PC front cover, no LED
2	F9.SP4.1	PG 13.5	PG13.5 Cable Gland for Wall mounting Kit
2	F9.SP4.2	PG 11	PG11 Cable Gland for Wall mounting Kit
3	F9.SP5	Battery Kit replacement	2x3.6 Volt, two Lithium thionyl chloride battery Kit

