

F Series: F118

Field Mount Flowrate Monitor / Totalizer with Linearization, High/Low Alarms, Analog and Pulse Outputs



The F018 4-20 mA Transmitter is a loop powered transmitter with simultaneous Rate & Total indicator. The F018 features a NEMA 4X field enclosure. It also features 10 point linearization. Intrinsically safe availability.

The F018 is a versatile flow rate indicator and totalizer with the ability to precisely linearize the flowmeter signal. In addition to the average K-Factor or Span, ten linearization points can be entered with their frequencies or values. The unit will interpolate between these points, greatly enhancing accuracy in any flow range, even for very low frequency applications. Moreover, a continuous flow rate monitoring feature is available with high and low flow rate alarm values and up to three alarm outputs. Flow rate and total are transmitted with an analog and scaled pulse output.

The display shows flow rate, total, accumulated total, alarm values, alarm messages and status. On-screen engineering units are easily configured from a comprehensive selection.

Features and Benefits:

- ✓ Magnetic Pickup Input, Contact Closure Input, DC Pulse Input.
- ✓ 10 point linearization.

ENCLOSURE APPROVALS

IP66 IP67 NEMA 4X IEC IECEx ATEX

Communication

Function: All process data and settings can be read and modified through the communication link.

Protocol: Modbus RTU

F118 – SPECIFICATIONS

Output	4-20mA, Isolated from Ground, Scaled Pulse, Alarms
Display	
Type	High intensity reflective numeric and alphanumeric LCD, UV-resistant.
Dimensions	90 x 40mm (3.5" x 1.6").
Digits	Seven 17mm (0.67") and eleven 8mm (0.31") digits. Various symbols and measuring units.
Refresh rate	User definable: fast, 1sec, 3sec, 15sec, 30sec, off.
Option	Transflective LCD with bi-color LED-backlight; green / amber. Intensity and color selected through the keyboard. Good readings in full sunlight and darkness. Also available Intrinsically Safe.
Operating temperature	
Standard unit	-40°C to +80°C (-40°F to +176°F).
Intrinsically Safe	-40°C to +70°C (-40°F to +158°F).
Power requirements options	
	Long life Lithium battery - life-time depends upon settings and configuration - up to 5 years.
	Intrinsically Safe long life lithium battery - life-time depends upon settings and configuration - up to 5 years.
	16 - 30V DC. Power consumption max. 1 Watt.
	8 - 30V DC. Power consumption max. 0.3 Watt.
	20 - 30V DC. Power consumption max. 1 Watt.
Note	For Intrinsically Safe applications, consult the safety values in the certificate.
Terminal connections	
Type	Removable plug-in terminal strip. Wire max. 1.5mm ² and 2.5mm ²
Data protection	
Type	EEPROM backup of all settings. Backup of running totals every minute. Data retention at least 10 years.
Pass-code	Configuration settings can be pass-code protected.