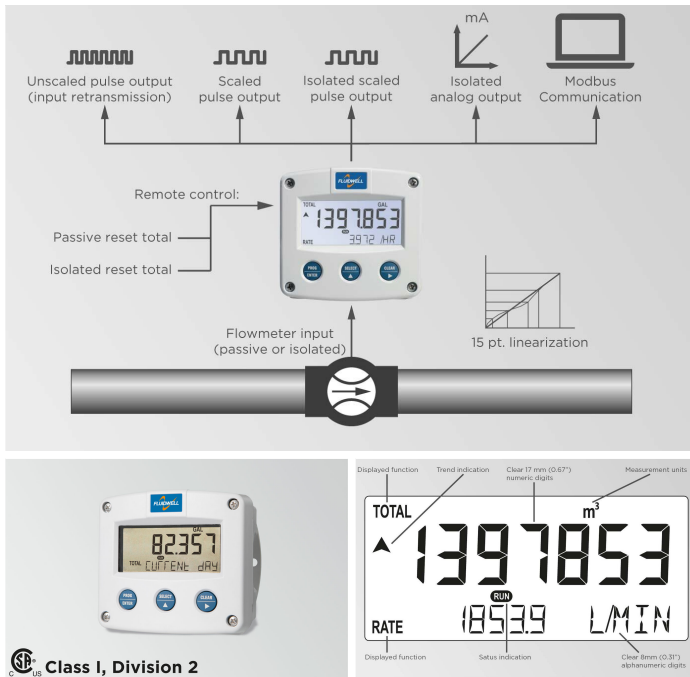


F103 Weatherproof - Flow Logger / Totalizer

with linearization, analog and pulse outputs



Features

- Displays simultaneous linearized flow rate and total, as well as accumulated total, daily total, previous day total and 15 historical day totals.
- Flow logging to survey daily operation and unexpected events with 600 daily, 1500 interval and 724 event logs (optional). Learn more with this [interactive / video tutorials](#).
- Flow rate: seven 17mm (0.67") or 8mm (0.31") digits.
- Total - resettable: seven 17mm (0.67") digits.
- Accumulated total - not resettable: eleven 8mm (0.31") digits.
- Separate engineering units for flow rate and total on the display.
- The quick set-up allows easy configuration of the most often used settings.
- Easy configurable via PC with free downloadable remote configuration tool and special communication cable (ACE02/06/07).
- Smart K-factor configuration for volumetric or mass flow.
- 15 linearization points for high accuracy at the full flow range.
- Auto backup of settings and running totals in EEPROM memory.
- Pulse input retransmission, i.e. for calibration purposes or amplification and squaring of sinewave/coil signals.
- Remote control input to reset total or to lock the "clear total" button.
- LED backlight.
- CSA Class I, Division 2, Non-Incendive rating for the United States and Canada.
- GRP, Aluminum or high grade stainless steel enclosure.
- Ambient temperature: -40°C to +70°C (-40°F to +158°F).
- Various [accessories](#) are available for this product.

Product description

The versatile F103 Flow Totalizer is your best choice for flow monitoring applications. It is perfect for new installations and to replace existing flow analyzers in the field. Its rugged construction, unique plug-and-play design and attractive pricing makes the F103 the perfect flow logger for liquid and gas flow measurement in Class I, Division 2

hazardous areas. It is the first F-Series with flow logging besides the various pulse and analog output signals. Even demanding applications are catered for with our base unit configuration.

The display shows flow rate and totals. A current day total (daily total) and 15 historical (previous) day totals can be enabled in the setup menu to be shown at the main display. On-screen engineering units can easily be configured from a comprehensive menu. The flow/data logging is optional available and when chosen, it replaces the basic 15 historical (previous) day totals. Each log contains the flow rate, total, acc. total, time stamp and log number. The log can be downloaded as .csv file with the free software tool.

Advantages

- Robust aluminum or stainless steel 316L field enclosure (IP65, IP67 / Type4X) . It is so rugged, a truck can even stand on it!
- CSA Class I, Division 2, Non-Incendive rating for the United States and Canada.
- Familiar easy operation with the Fluidwell "Know one, know them all" configuration structure, saving time, cost and aggravation.
- Very diverse mounting possibilities: walls, pipes, panels or directly onto outdoor sensors.
- [Easy configurable via PC](#) with free downloadable remote configuration tool and special communication cable (ACE02/06/07).
- Excellent pricing and fast delivery times.

Applications

- The F103 is the perfect fit for new installations and to replace existing flow analyzers at liquid and gas flow measurement applications in Class I, Division 2 hazardous areas.
- The optional data logging is for applications where you easily want to monitor daily operation and unexpected events over time.
- The F-Series is your first and best choice for field mount indicators in safe and hazardous area applications. Especially in harsh weather conditions like rain, snow, sandy deserts, salty atmospheres and temperatures between -40°C to +70°C (-40°F to +158°F).

Product specifications

Signal Inputs

Flowmeter Inputs

- Pulse type inputs:
Non-isolated: Coil / sine wave, NPN/PNP, open collector, reed switch.
Isolated : Active pulse input 3 - 30V DC

Status Inputs

- Isolated and non-isolated remote control: external reset for clearing total or to disable manual clearing by the keypad.

Supply

Power Supply

- Long life Lithium battery.
- 4 - 20mA Loop-powered.
- Basic: 6 - 30V DC.
- 8 - 30V DC + sensor supply.

Sensor Supply

- 3.2, 8.2, 12, 24V DC.

Signal Outputs

Pulse outputs

- Function: Scaled pulse output according to linearized accumulated total (e.g. a pulse every

Hazardous Area

Communication

3.25 gallons) and unscaled pulse input retransmission.

Max. frequency: 500Hz.

Retransmission: Minimum pulse duration: 50µs, square wave output based on frequency of (sine wave or coil) input signal. Adjustable pulse length from 1 msec. Up to 10 seconds.

Isolated Scaled pulse output : max. 50Hz. Pulse length user definable between 10msec up to 10 seconds.

- Type: Two passive transistor outputs and one isolated passive solid state output.

Analog outputs

- Function: Re-transmitting the linearized flow rate - the output can be scaled to any range (e.g. 200 L/min to 1200 L/min).

- Type: One galvanically isolated, loop powered 4 - 20mA output.

- Function: Reading display information, clear total, reading / writing all configuration settings and data log extraction.

- Type: RS232, RS485 2-wire Modbus ASCII / RTU.

- Remote configuration via free downloadable remote configuration tool (see dropdown download above).



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We're happy to answer any questions about our products and services.
Just send us an email or give us a call.