

# F126 -EL

## Intrinsically Safe - Flow Computer

with temperature compensation for corrected liquid volume



### Features

- Calculates compensated flow rate, total and accumulated total based on a temperature/expansion relationship.
- Displays actual line temperature.
- Analog output signal reflecting the corrected flow rate.
- Displays total and flow rate simultaneously.
- Flow rate: seven 8mm (0.31") digits.
- Total - resettable: seven 17mm (0.67") digits.
- Accumulated total - not resettable: eleven 8mm (0.31") digits.
- Temperature: six 17mm (0.67") digits.
- Engineering units for flow rate, total and temperature on the display.
- LED backlight.
- Intrinsically safe according ATEX and IECEx.
- GRP, Aluminum or high grade stainless steel enclosure.
- Auto backup of settings and running totals in EEPROM memory.
- Ambient temperature: -40°C to +80°C (-40°F to 176°F).
- Various [accessories](#) are available for this product.

## Product description

**The F126-EL flow computer has been developed to calculate corrected liquid volume at normal conditions. The corrected volumetric flow is calculated by measuring the uncorrected volumetric flow and actual line temperature which is processed with the thermal expansion coefficient algorithm stored in the flow computer. The reference temperature can be defined as desired (e.g. 15°C, 20°C or 60°F).**

The display shows the compensated flow rate, total, accumulated total and the actual line temperature. On-screen engineering units like Nm<sup>3</sup> are easily configured from a comprehensive selection.

## Advantages

- Robust aluminum or stainless steel 316L field enclosure (IP66, IP67 / NEMA Type4X) . It is so rugged, a truck can even stand on it!
- Intrinsically Safe available - ATEX and IECEx approval for gas and dust applications.

- 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.

## Applications

- Applications where net flow calculation of liquids at normal conditions is desired without the influence of thermal product expansion.
- 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 up to +80°C (-40°F up to 176°F).

## Product specifications

### Signal Inputs

#### Flowmeter Inputs

- Pulse type inputs:  
Reed-switch, open collector, NAMUR, NPN/PNP pulse, Sine wave (coil), active pulse signal.

#### Temperature Inputs

- PT100 - 2 or 3 wire PRTD sensor.

### Supply

#### Power Supply

- Long life Lithium battery.
- 4 - 20mA Loop-powered.
- 8 - 24V AC/DC.
- 115 - 230V AC.
- Basic: 8 - 30V DC.

#### Sensor Supply

- 3.2, 8.2, 12, 24V DC.

### Signal Outputs

#### Pulse outputs

- Function: Scaled pulse output according to accumulated total (e.g. a pulse every 3.25 gallons).  
Max. frequency: 500Hz.  
Adjustable pulse length from 0.001 sec. to 9.999 seconds.
- Type: One passive NPN transistor, active PNP transistor or isolated electro-mechanical relay.

#### Alarm outputs

- None.

#### Analog outputs

- Function: Re-transmitting the compensated flow rate - the output can be scaled to any range (e.g. 200 L/min to 1200 L/min).
- Type: One passive isolated, floating or loop powered 4 - 20mA output or one active (0)4 - 20mA or 0 - 10V DC output.

### Hazardous Area

#### Intrinsically Safe

- ATEX:  
Gas: II 1 G Ex ia IIB/IIC T4 Ga  
Dust: II 1 D Ex ia IIIC T100 °C Da
- IECEX:  
Gas: Ex ia IIC/IIB T4 Ga  
Dust: Ex ia IIIC T100 °C Da

#### Explosion Proof

- ATEX:  
Gas: II 2 G / Ex d IIB T5 Gb  
Dust: II 2 D / Ex t IIIB T100°C Db

### Communication

- Function: All process data and settings can be read and modified through the communication link.
- Protocol: Modbus RTU.
- Interface: RS232 / RS485 2-wire or 4-wire / TTL.

- HART communication is available with the F018 & E018 Flow rate Monitor / Totalizers.



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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.