

# F090 Safe area / Intrinsically safe - Multi-Purpose Indicator

input loop powered with very large digits



## Features

- Displays the actual value, measuring unit and loop current.
- Very large 26mm (1") high digits.
- Selectable on-screen engineering units: %, PPM, meter, m, cm, mm, ft, sqft, ML, L, NL, M<sup>3</sup>, nM<sup>3</sup>, GAL, USGAL, IGAL, bbl, CUFT, mg, g, kg, ton, lb, psi, psig, mbar, bar, barg, °C, °F, K, P, RPM, K, KPA or no unit (others on request).
- Selectable on-screen time units for flow rate: /sec, /min, /hour, /day or no unit.
- Number of digits for actual value: 5½.
- Piegraph indication: ten segments.
- LED backlight with adjustable intensity.
- Intrinsically safe according ATEX, IECEx, FM and CSA C-US.
- GRP, Aluminum or high grade stainless steel enclosure.
- Auto backup of settings in EEPROM memory.
- Easy configuration with clear alphanumeric display.
- Ambient temperature: -40°C to +80°C (-40°F to 176°F).
- Various [accessories](#) are available for this product.

## Product description

The F090-A-PL is an economical loop powered general / multi-purpose indicator with large 26mm (1") high digits. The measuring unit to be displayed is simply selected through an alphanumeric configuration menu. No adhesive labels have to be put on the outside of the enclosure: a weather proof and user-friendly solution!

The configuration of the Span, off-set and number of decimals is done through software functions, without any sensitive DIP-switches or trimmers.

It accepts 4 - 20mA input signals from a wide range of process instruments,, including flow (linear or square root), level, pressure and temperature transmitters. All these process parameters can be displayed in their own engineering units.

## Advantages

- Robust aluminum or stainless steel 316L field enclosure (IP65, IP67 / NEMA Type4X) . It is so rugged, a truck can even stand on it!
- Intrinsically Safe available - ATEX, IECEx, FM and CSA 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 a local general / multi-purpose display is required without monitoring function, linearization or signal re-transmitting.
- The F090 takes operating energy from an input current (2-wire 4 - 20mA) and reduces installation cost.
- 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

#### General Purpose Inputs

- 4 - 20mA input loop-powered.

### Supply

#### Power Supply

- 4 - 20mA, input Loop-powered.

#### Sensor Supply

- None.

### Signal Outputs

#### Alarm outputs

- None.

#### Analog outputs

- None.

### Hazardous Area

#### Intrinsically Safe

- ATEX:  
Gas: II 1 G Ex ia IIC T4 Ga  
Dust: II 1 D Ex ia IIIC T<sub>200</sub> 100 °C Da
- IECEX:  
Gas: Ex ia IIC T4 Ga  
Dust: Ex ia IIIC T<sub>200</sub> 100 °C Da
- CSA & FM:  
I.S. Class I/II/III, Div 1, Grp A...G, T4  
Class I, Zone 0, AEx ia IIC T4 Ga  
**Note:** Extended aluminum enclosures not available with CSA/FM approval.

### Communication

- Modbus communication available on F1-Series products.
- HART communication is available with the F018 Flow rate Monitor / Totalizer.



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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.