

F490

Safe area / Intrinsically safe - Loop Powered, Multi-Purpose Indicator

for universal applications



Features

- Universal loop powered indicator.
- Input signal: 4 - 20mA with ultra low voltage drop < 1V DC, allowing easy installation in almost any 2-wire, 4-20mA loop.
- Displays the actual value, measuring unit and loop current.
- Very large 26mm (1") high digits.
- Selectable on-screen engineering units: L - NL - mL - M³ - AM³ - NM³ - mg - g - Kg - TON- OZ- GAL - USGAL - IGAL - lb - bbL- cf - CUft - scf - p - rev - °C - °F - K - % - M - mm - CM - mtr - inch - Ft - SQFt - Yd - PSI - psig - mbar - MbARG - bar - barg - bara - PA - PAG - KPA - KPAG - MPA - INHG - mmHg - mmH2O - MH2O - INH2O- Ph - mV - mA - A - uS - PPM - RPM or no unit.
- Selectable on-screen time units for flow rate: /SEC - /S - /MIN - /M - /HR - /H - /DAY - /D or no unit.
- Number of digits for actual value: 5½.
- Piegraph indication: ten segments.
- LED backlight with separated circuit from the input circuit.
- Intrinsically safe according ATEX, IECEx 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: -30°C to +70°C (-22°F to +158°F).
- Various [accessories](#) are available for this product.

Product description

The F490 is a versatile, loop powered Multi-Purpose Indicator to display the actual process value, range and loop current. Besides the focus on level, temperature and pressure applications, the F490 can also work with other measuring units, like %, mA, RPM and more. The measuring unit to be displayed is simply selected through an alphanumeric configuration menu. The configuration of Span, offset and number of decimals is done through software functions, without any sensitive dip-switches or trimmers. Therefore, the F490 is a versatile indicator that suits many applications. Various options are available, including Intrinsic Safety for hazardous area applications.

The input circuit is separated from the backlight circuit. The F490 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 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, loop powered, general / multi-purpose display is required without monitoring function, linearization or signal re-transmitting.
- The F490 takes operating energy from an input current (2-wire 4 - 20mA) and has a separated backlight circuit.
- 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 -30°C to +70°C (-22°F to +158°F).

Product specifications

Signal Inputs

General Purpose Inputs

- 4 - 20mA input loop-powered with ultra low voltage drop < 1V DC.

Supply

Power Supply

- 4 - 20mA input loop-powered with ultra low voltage drop < 1V DC.

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 T₂₀₀ 100 °C Da
Mining: I M1 Ex ia I Ma
- IECEX:
Gas: Ex ia IIC T4 Ga
Dust: Ex ia IIIC T₂₀₀ 100 °C Da
Mining: Ex ia I Ma
- CSA:
IS Class I/II/III, Division 1, Grps. A to G
Class 1 Zone 0 AEx ia IIC T4
Note: Stainless steel and extended aluminum enclosures not available with CSA approval.

Communication

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



sales@fluidwell.com | T. +31 (0) 413 - 343 786

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