

# F043 Safe area / Intrinsically safe - Temperature Monitor

with one high / low alarm output



## Features

- The display shows the actual temperature, alarm values, alarm messages and status.
- On-screen engineering units are easily configured from a comprehensive selection.
- Displays clear alarm messages.
- Red flashing LED backlight in case of a temperature alarm; intensity adjustable.
- Selectable on-screen engineering units: °C - °F - K.
- Temperature: six large 17mm (0.67") digits.
- Temperature monitoring: two alarm values can be set: low and high temperature alarm.
- Alarm values can be changed by the operator or they can be password protected.
- One alarm output for high, low or both combined temperature alarms.
- 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 F043 is a versatile temperature indicator with continuous temperature monitoring feature. It has one low temperature and one high temperature alarm value. If desired, an ignore (delay) function can be set up to allow for an incorrect temperature for a certain period of time. The configuration of the Span, off-set and number of decimals is done through software functions, without any sensitive DIP-switches or trimmers.

## 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

- For applications where continuous temperature measurement and monitoring is important without signal re-transmission.
- 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

#### Temperature Inputs

- PT100 - 2, 3 or 4 wire PRTD sensor.
- (0)4 - 20mA.

### Supply

#### Power Supply

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

#### Sensor Supply

- 8.2, 12, 24V DC.

### Signal Outputs

#### Alarm outputs

- Function: Configurable alarm output for high, low or both combined temperature alarms.
- Type: One passive NPN transistor, active PNP transistor or isolated electro-mechanical relay.

#### 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.

#### Explosion Proof

- ATEX/IECEX:  
Gas: II 2 G Ex db IIB+H2 T5 Gb  
Dust: II 2 D Ex tb IIIC T80°C Db

### 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.