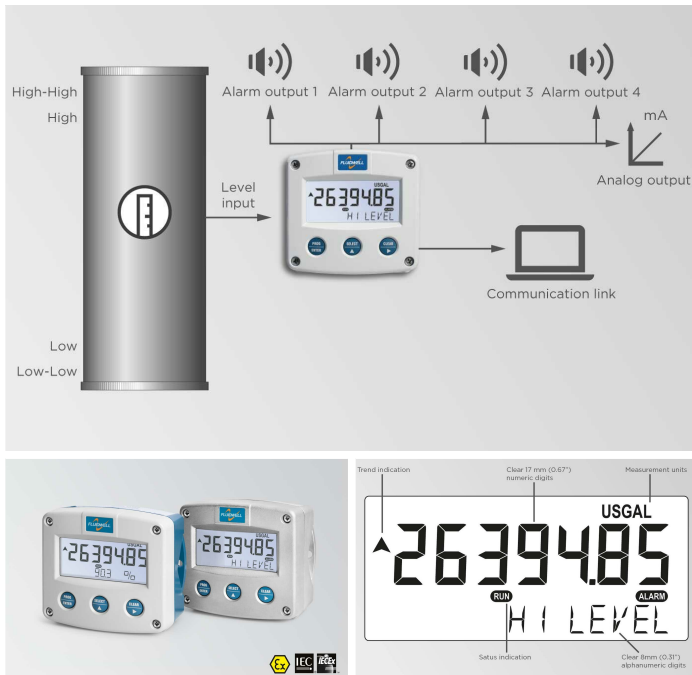


# F170 **Safe area / Intrinsically safe - Level Monitor**

with high / low alarms and analog outputs



## Features

- Level monitoring: four alarm values can be set: low-low, low, high and high-high level alarm.
- Alarm values can be changed by the operator or they can be password protected.
- Optional clear alarm output function, e.g. to turn off an acoustic alarm.
- Analog output to transmit the actual level.
- Level and alarm values: six large 17mm (0.67") digits.
- Displays level, height or percentage, measuring unit and alarm messages simultaneously.
- Alarm ignore function allows an incorrect level for a certain period of time.
- Selectable on-screen engineering units; volumetric, mass and height.
- Displays clear alarm messages.
- Red flashing LED backlight in case of a level alarm; intensity adjustable.
- Intrinsically safe according ATEX and IECEx.
- GRP, Aluminum or high grade stainless steel enclosure.
- Backup of settings 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 F170 is a versatile level indicator featuring continuous level monitoring. It has two low and two high level alarm values. If desired, an ignore function can be set up to allow for an incorrect level for a certain period of time.**

Up to five outputs are available to transmit alarm conditions and actual level. The display shows the actual level, height or percentage, alarm values, alarm messages and status. On-screen engineering units are easily configured from a comprehensive selection.

## 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 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

- Level measurement and continuous level monitoring is desired as well as signal re-transmission of the level or serial communication.
- 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

#### Level Inputs

- (0)4 - 20mA.

### Supply

#### Power Supply

- Long life Lithium battery.
- 4 - 20mA 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 outputs for low-low, low, high, high-high or all combined level alarms.
- Type: Up to three passive NPN transistors or active PNP transistors or up to four isolated electro-mechanical relays.

#### Analog outputs

- Function: Re-transmitting the actual level - the output can be scaled to any range (e.g. 2.5 m<sup>3</sup> to 1400.0 m<sup>3</sup>).
- 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 T<sub>200</sub> 100 °C Da
- IECEX:  
Gas: Ex ia IIC/IIB T4 Ga  
Dust: Ex ia IIIC T<sub>200</sub> 100 °C Da

#### 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

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

[sales@fluidwell.com](mailto: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.