

F074 Safe area / Intrinsically safe - Level / Pump Controller

with one control output



Features

- The display shows the actual level, preset value, high / low switch points and status.
- On-screen engineering units are easily configured from a comprehensive selection.
- Selectable on-screen engineering units for level: ml, L, m³, GAL, USGAL, kg, lb, bbl or no unit.
- Selectable on-screen engineering units for height: mm, cm, m, mtr, inch, ft, mmwk, mmwc, cmwk, cmwc, mwk, mwc, inwc, ftwc, mBar, Bar, PSI or no unit.
- Level: six large 17mm (0.67") digits.
- LED backlight with adjustable intensity.
- Level control: high / low switch points and a preset value can be set.
- Switch points and preset value can be set by the operator or they can be password protected.
- One control output for on / off pump or value control.
- 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 F074 is a basic level / pump controller that works with a preset value and two switch points to control a pump or valve. The low and high level switch points are entered as a percentage of the preset value to switch the device on / off. For pump control applications, the function can be inverted to empty a well. A stable level within a hysteresis around the preset value is the result.

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

- Basic on / off level control applications without PI(D) control requirements. Also very suitable for applications where the required level changes frequently.
- Functions for filling-up a container or emptying a well or tank.
- 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, 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

- None.

Analog outputs

- None.

Control outputs

- Function: Control output to control a pump or valve, according to the high / low level switch point values.
- Type: One passive NPN transistor, active PNP transistor or isolated electro-mechanical relay.

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
- IECEx:
Gas: Ex ia IIC T4 Ga
Dust: Ex ia IIIC T₂₀₀ 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.