

# E018 Explosion proof - Flow rate Monitor / Totalizer

with linearization, high / low alarms, analog and pulse signal outputs and **HART Communication**



## Features

- Explosion proof according ATEX, IECEx, FM and CSA C-US.
- Aluminum or high grade stainless steel Ex d enclosure.
- Easy installation with the spacious chamber and plug & play connectors.
- Cost saving with an easy to install, 1" NPT thread for direct flowmeter mounting.
- Key information at a glance as the display shows flow rate, total, accumulated total, measuring units, alarm values, alarm messages and a flow rate indicating speedometer.
- High and low flow rate alarm monitoring.
- 15 point linearization of the flow curve - with interpolation.
- 7 digit flow rate / total and 11 digit accumulated total.
- Clear flashing LED backlight in case of an alarm.
- Auto backup of settings and running totals.
- Ambient temperature aluminum enclosure: -40°C to +70°C (-40°F to 158°F).
- Ambient temperature stainless steel enclosure: -40°C to +67°C (-40°F to 153°F).
- Various accessories are available for this product.
- E018 on the [HART Foundation](#) website.
- Pulse input retransmission, i.e. for calibration purposes or amplification and squaring of sinewave/coil signals.

## Product description

The E018 is one of the top models in our range of explosion proof flow computers. The HART communication allows you to communicate in an easy way with smart "DD enabled host" systems. In addition to the average K-Factor, 16 linearization points can be entered. The unit will interpolate between these points greatly enhancing accuracy in any flow range. Moreover, a continuous flow rate monitoring feature is available with high and low flow rate alarm values and four alarm outputs. The E-series is distinguished by its high quality manufacturing and its functionality driven European design.

Ruggedness and reliability is where Fluidwell stands for and it is now available in a comprehensive well designed and purpose driven Explosion proof flow monitor / totalizer.

## Advantages

- Saves time and improves flexibility with the through-glass keypad: no need to open the front cover.
- Familiar easy operation with the Fluidwell "Know one, know them all" configuration structure, saving time, cost and aggravation.
- Durable high-grade stainless steel 316L Ex d enclosure withstanding extreme (maritime) conditions.

## Applications

- Flow measurement with mechanical flowmeters, where re-transmission of the totalizer, monitoring of the flow rate and HART communication is required.
- The E-Series can be used in rough and tough applications, beyond being just explosion proof. Its sturdy design and ease of use are unequaled by any other explosion proof indicator in the market! The E-Series is always your first and safest choice in explosion proof applications.

## Product specifications

### Signal Inputs

#### Flowmeter Inputs

- Pulse type inputs:  
Reed-switch, NAMUR, NPN/PNP pulse, Sine wave (coil), active pulse signal.

#### Status Inputs

- Remote control: external input for clearing total or to disable manual clearing by the keypad.

### Supply

#### Power Supply

- Long life Lithium battery.
- 4 – 20mA. Output loop-powered.
- 9 – 27V DC.

#### Sensor Supply

- 3, 8.2, 12, 24V DC.

### Signal Outputs

#### Pulse outputs

- Function: 4 Scaled pulse outputs according to linearized accumulated total (e.g. a pulse every 3.25 gallons) and unscaled pulse input retransmission. Max. frequency: 500Hz. Retransmission: Minimum pulse duration: 50µs, Adjustable pulse length from 1 msec. Up to 10 seconds.
- Type: Four passive NPN transistors and two isolated electro-mechanical relays.

#### Alarm outputs

- Function: Configurable alarm outputs for low, high or both flow rate alarms.
- Type: Four passive NPN transistors and two isolated electro-mechanical relays.

#### Analog outputs

- Function: Re-transmitting the linearized flow rate - the output can be scaled to any range (e.g. 200 L/min to 1200 L/min).
- Type: One galvanically isolated, loop powered 4 – 20mA output.

### Hazardous Area

#### Intrinsically Safe

- For Intrinsically Safe applications we recommend the F-Series.

#### Explosion Proof

- **ATEX:**  
Gas: II 2 G Ex db IIC T6 Gb.  
Dust: II 2 D Ex tb IIIC T85°C Db.
- **IECEX:**  
Gas: Ex db IIC T6 Gb.  
Dust: Ex tb IIIC T85°C Db.
- **FM and CSA <sub>c-us</sub>:**  
XP (Explosion-proof): Class I, Division 1, Groups A, B, C, D.  
DIP (Dust-Ignition-proof): Class II/III, Div. 1, Groups E, F, & G.  
Gas: Class I, Zone 1, AEx d IIC T6 Gb.  
Dust: Zone 21, AEx tb IIIC T85°C Db.

### Communication

- Function: Reading display information, clear

total and all settings can easily be read and modified through the HART communication link with all registered "DD enabled host" systems.

- Protocol: HART, Revision 7.0.
- Device specific DD can be downloaded at the dropdown downloads above .



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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.