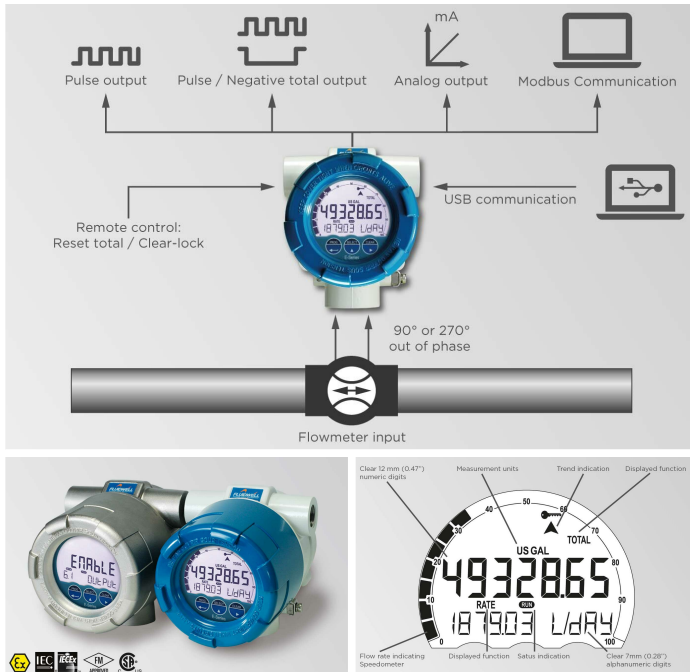


E115 Explosion proof - Bi-directional Flow rate Indicator / Totalizer

with analog, pulse and flow direction outputs



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.
- Detects flow direction with quadrature signal inputs.
- Key information at a glance as the display shows forward & reverse flow rate, forward & reverse total, accumulated total count up and count down ref. flow direction, measuring units and a flow rate indicating speedometer.
- Easy K-factor and engineering unit configuration for volumetric or mass. Learn more with this [interactive tutorial](#).
- 7 digit flow rate / total and 11 digit accumulated total.
- Bright LED backlight.
- Current day total (Daily total), previous day total (both non-resettable) and 15 historical day totals can be displayed.
- Easy configurable via PC with free downloadable remote configuration tool and special communication cable (ACE01/02/06/07).
- 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.
- Pulse input retransmission, i.e. for calibration purposes or amplification and squaring of sinewave/coil signals.

Product description

The E115 has been developed for applications where the direction of flow is an issue. Applications can be found by loading and unloading of ships where one bi-directional flowmeter is used. Another application is the correction of back-flow due to shocks in a pipeline caused by piston pumps or valve behavior. It is required to offer two pulse signals from the flowmeter which are 90° or 270° degrees out of phase.

The E-series distinguishes itself by its quality and functionality driven European design and

manufacturing. It is more than fulfilling the rules for explosion proof design, it is about safety during the daily operation. Often, the environment is much tougher than the explosion proof requirements demand. Thus dangerous conditions may be experienced due to a broken enclosure or a poorly made flame path. Ruggedness and reliability is where Fluidwell stands for and it is now available in a comprehensive well designed and purpose driven explosion proof flow rate indicator / 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

- For bi-directional flow measurement applications like loading / unloading (of ships) through the same flowmeter.
- When undesired backflow (due to shocks in a pipeline caused by piston pumps or valve behavior) disturbs a correct totalization.
- 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: Configurable outputs: scaled pulse output according to the bi-directional accumulated total, unscaled pulse input retransmission or switch output indicating the direction of the flow. Max. frequency: 500Hz. Retransmission: Minimum pulse duration: 50µs, Adjustable pulse length from 1 msec. Up to 10 seconds.
- Type: Two passive NPN transistors and two isolated electro-mechanical relays.

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** c-us

Alarm outputs

- None.

Analog outputs

- Function: Re-transmitting the forward, reverse or differential 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.

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 reading / writing all configuration settings.
- Type: RS232, RS485 2-wire Modbus RTU or Local USB.
- Remote configuration via free downloadable remote configuration tool (see dropdown download above).
- HART communication is available with the [E018](#) 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.