

E119 Explosion proof - Totalizer with receipt printer driver

linearization, analog and pulse 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.
- 15 point linearization of the flow curve - with interpolation.
- Key information at a glance as the display shows flow rate, total, accumulated total, measuring units and a flow rate indicating speedometer.
- Remote control: external input for clearing total, disable manual clearing, print totalizer ticket, reprint last ticket or end delivery
- 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.
- Date and time continue in case of power failure.
- 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 E119 explosion proof totalizer can send a “print receipt” command to a printer. The configurable ticket printing can be set for (daily) totals or delivery tickets. The linearization greatly enhances accuracy in any flow range. The scaled pulse output retransmits the linearized accumulated total. Daily total and 15 previous day totals can

be added to the main display.

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

- Flow measurement with mechanical flowmeters where a precise calculation over the full measurement range is required and signal re-transmission is desired.
- When providing a printed ticket as proof of your delivery or daily total is a critical part of your operation.
- 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: two external inputs for clearing total, disable manual clearing, print totalizer ticket, reprint last ticket or end delivery.

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: Scaled pulse output 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.

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.

- Type: One passive NPN transistor and one isolated electro-mechanical relay.

Alarm outputs

- None.

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.

• **IECEX:**

Gas: Ex db IIC T6 Gb.
Dust: Ex tb IIIC T85°C Db.

• **FM and CSA** c-us:

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: Configurable communication mode: Ticket printing on demand (delivery), ticket printing of daily totals or at contract hour, read and modify all process data and settings.
- Type: RS232 or RS485 2-wire Modbus RTU.
- 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.