

# E126 -EG

**Explosion proof - Flow Computer for gas**  
with temperature and pressure compensation for corrected volume



## 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, temperature, pressure, 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 E126-EG measures the actual flow, temperature and pressure and converts it with an ideal gas formula to gas volume at reference conditions (e.g. 0°C/1.013Bar or 14.7PSI /60°F). The reference conditions can be configured in the settings. A compressibility factor can be set to approach a real gas behavior.

The robust E126-EG is designed with a focus on your safety. It's beyond fulfilling the rules for

hazardous area approvals, because the environment is often much tougher than explosion proof requirements demand. Experiencing flaws in your processes due to rain, snow, salty atmospheres (offshore) or early wear? The E126 delivers accurate measurement while withstanding the harshest conditions.

## 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 in applications where nett gas flow calculation at base conditions is desired.
- 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.

#### Temperature Inputs

- PT100 - 2, 3 or 4 wire PRTD sensor.
- (0)4 - 20mA.

#### Pressure Inputs

- (0)4 - 20mA.

### 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 corrected accumulated total and unscaled pulse input retransmission. Max. frequency: 500Hz. Retransmission: Minimum pulse duration: 50µs, Adjustable pulse length from 1 msec. Up to 10 seconds.
- Type: One passive NPN transistor and one isolated electro-mechanical relay.

#### Alarm outputs

- None.

### 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:  
XP (Explosion-proof): Class I, Division 1, Groups A, B, C, D.

### Analog outputs

- Function: Re-transmitting the corrected 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.

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 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.