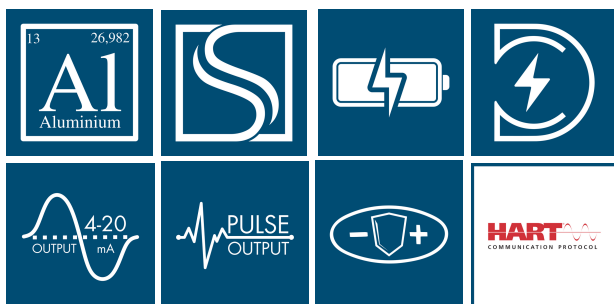


EXPLOSION PROOF FLOWRATE MONITOR / TOTALIZER

The FLUIDEX E018, by Fluidwell®, is a standout model in our range of explosion-proof flow computers. This model incorporates HART communication, enabling seamless interaction with smart "DD enabled host" systems. It not only allows for the input of 16 linearization points and the average K-Factor but also interpolates between these points, enhancing accuracy across various flow ranges. Additionally, it provides continuous monitoring of flow rates, complete with high and low flow rate alarm values and four alarm outputs. The E-series is renowned for its top-notch quality, durability, and dependability.



SPECIFICATIONS

Display
<ul style="list-style-type: none"> Type: High intensity transreflective numeric and alphanumeric LCD, UV resistant, with bright backlight. Intensity can be adjusted via keypad. Digits: Seven 0.47" (12 mm) and eleven 0.28" (7 mm) digits. Various symbols and measuring units. Refresh rate: User definable: 8 times/s to 30 s. Speedometer: To indicate the actual flow rate the bargraph runs from 0 to 100% in 20 blocks, each block is 5%.
Signal Input (Flowmeter)
<ul style="list-style-type: none"> Coil / sine wave (COIL-HI: 20mVpp or COIL-LO: 80mVpp - sensitivity selectable), NPN / PNP, open collector, reed switch, Namur, active pulse signals 8 - 12 and 24V (dc) Frequency: Minimum 0Hz - maximum 7 kHz for total and flow rate. Maximum frequency depends on signal type and internal low-pass filter. E.g. reed switch with lowpass filter. Maximum frequency 120Hz. K-Factor: 0.000010 - 9,999,999 with variable decimal position Low-pass filter: Available for all pulse signals
Analogue Output Signal
<ul style="list-style-type: none"> Function: Transmitting linearized flow rate Accuracy: 12 bit. Error < 0.1%. Analog output signal can be scaled to any desired range. Type AH: Galavanically isolated, loop powered 4-20mA output



FEATURES

- Selectable on-screen engineering units; volumetric or mass
- 7 digit flow rate / total and 11 digit accumulated total
- 16 point linearization of the flow curve - with interpolation
- Power options: Loop powered, battery and 8 - 30V (dc)
- Isolated, loop powered 4 - 20mA output according to linearized flow rate
- Scaled pulse output according to linearized accumulated total
- Ability to process all types of volumetric or mass flowmeter signals: Reed-switch, NAMUR, NPN/PNP pulse, Sine wave (coil), Active pulse signals. (0)4 - 20mA and 0 - 10V (dc) analog inputs are pending.
- HART communication
- Save time with the easy-to-operate through glass keypad.
- Easy installation with the spacious chamber and plug and play connectors
- Long life duration in extremely salty atmospheres (offshore) with heavy duty stainless steel Exd enclosure
- Key information at a glance as the display shows flow rate, total, measuring units and a flow rate indicating speedometer

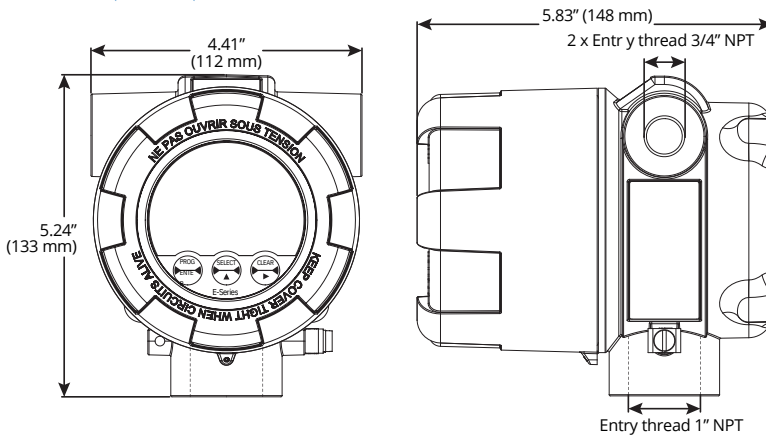
Pulse Output Signal
<ul style="list-style-type: none"> Function: Pulse output. Transmitting accumulated total Frequency: Maximum 500Hz. Pulse length user definable between 1 ms up to 10 seconds Type OT: One passive transistor output (NPN) - not isolated. 300mA - 50V @ 77oF (25oC) Units: °C, °F or K
Power Requirements
<ul style="list-style-type: none"> • 9 - 27V (dc). Power consumption maximum 4.2 Watt. • Long life Lithium battery - lifetime depends upon settings and configuration - up to approximately 2 years

SPECIFICATIONS

External Reset Total
<ul style="list-style-type: none"> • Function: Terminal input to reset total remotely (If this terminal input is closed, the "clear total" function is disabled) • Type: Internally pulled-up switch contact - NPN • Duration: Minimum pulse duration 100ms
Accumulated Total - 11 digits
<ul style="list-style-type: none"> • Units / Decimals: According to selection for total • Note: Can not be reset to zero
Flow rate - 7 digits, 0 - 1 - 2 or 3 decimals
<ul style="list-style-type: none"> • Units: mL, m3, Gallons, kg, Ton, lb, bl, cf, RND, ft3, scf, Nm3, NI, ical - no units • Time units: /s - /min - /hr - /day

Hazardous Area - Explosion Proof
<ul style="list-style-type: none"> • ATEX Certification: <ul style="list-style-type: none"> ◦ II 2 G Ex IIC T6 Gb ◦ II 2 D Ex IIIC T85oC Db • IECEX Certification: <ul style="list-style-type: none"> ◦ Ex d IIC T6 Gb ◦ Ex tb IIIC T85oC Db • FM / CSA c-us Certification: <ul style="list-style-type: none"> ◦ Explosion-proof for use in Class I, Division 1, Groups A, B, C, D ◦ DIP (Dust-Ignition-proof): Class II, Division 1, Groups E, F and G. Class III, hazardous (classified) locations • Ambient to: -40°F to +158°F (-40°C to +70°C)
Hazardous Area - Directives
<ul style="list-style-type: none"> • EMC: Compliant ref. EN61326-1 and FCC 47 CFR part 15 • Low voltage: Compliant ref. EN61010-1

DIMENSIONS



CONFIGURATION AND ORDER CODE

1		Standard Configuration
	E018	Flow Rate Monitor / Totalizer - Alarms - HART
2		Flowmeter Input Signal
	P	Pulse input: Coil, NPN, PNP, Namur, Reed-switch
3		Analog Output Signal
	AH	Galvanically isolated, loop powered 4-20 mA output (F018)
4		Communication
	CR	HART Communication
5		Enclosure Types
	HAD	Diecast Aluminum Enclosure, Entry threads: 2" x 1/2" NPT / 1" x 3/4" NPT
	HSD	Stainless Steel Enclosure, Entry threads: 2" x 1/2" NPT / 1" X 3/4" NPT
6		Additional Inputs
	IB	Remote input to reset total or to lock the "Clear Total" button

7		Outputs
	OT	Two passive transistor outputs - standard configuration
8		Power Supply
	PD PB	9 - 27 V (dc) + sensor supply, Lithium battery power
9		Hazardous Area
	XD	Explosion proof enclosure according ATEX & IECEx (CSA and FM Pending)
10		Other Options
	ZB	Backlit is included as standard

FLUIDEX®