Your success counts



Basic Flow rate Monitor / Totalizer

with configurable alarm / pulse signal outputs













Your brand customization

The basic indicators of the B-Series have all the benefits you may expect from a Fluidwell product: It's durable, reliable and very easy to operate. For more advanced functionality we recommend our D-, E-, F- and N-Series.

Advantages

- Durable IP65 (Type 4X) field, wall or meter mount enclosure.
- Intuitive "Know one, know them all!" configuration menu, saving time, cost and aggravation.
- Compact design.
- Competitve pricing.
- Design your own branded product with several enclosure customization options.

Features

- Displays instantaneous flow rate, total, accumulated total and alarm messages.
- Clear 12mm(0.5") numeric and 7mm(0.3") alphanumeric digits
- All info at a glance with clear alphanumerical display.
- Bright LED backlight.
- The B-Alert accepts the basic sensor input signals: Reed-switch, Namur, NPN, PNP, Sine wave (coil).
- Two digital outputs that can be configured as a scaleable pulse output or as a flow rate alarm output.
- Power requirements: Lithium AA battery or 10 30V DC.
- Sensor supply: 8.2V DC.
- Auto backup of settings and running totals.
- One 20mm (0.79") and two 16mm (0.63") knock-out hole cable entries.
- Easy configurable via PC with free downloadable remote configuration tool.



Introduction

The B-Alert is a flow rate indicator and totalizer with continuous flow rate monitoring feature. It offers the facility to set one low flow rate and one high flow rate alarm value. The display shows flow rate, total, accumulated total and alarm messages. On-screen engineering units are easily configured from a comprehensive selection

Display

The main process information is displayed with 7 digits (12mm, 0.47") to show flow rate, total, accumulated total or alarm values. The 7 alpha-numeric digits (7mm, 0.28") are used for the flow rate measurement units, the clear setup menu messages and the alarm messages. For good readings in full sunlight and darkness, the B-Alert is provided with a bright backlight.

Configuration

The B-Series uses the same highly appreciated configuration structure of our Fluidwell product series. Each setting is clearly indicated with an alphanumerical description, which avoids confusing abbreviations. Once familiar with one B-series product, you will be able to program all models in all series without a manual. In other words: know one, know them all.

Remote configuration

Even more user-friendly is the remote configuration via a PC using the free downloadable Configuration Software. Connect the B-Series service connector with the special Configuration Cable (ACEO2) to the USB port of your PC.



Power requirements

Two power inputs are available to supply the B-Series and sensor. The B-Alert can be powered with a single 3.6V lithium AA battery. The basic 10 - 30V DC power supply can supply the B-Alert including the backlight and offers an 8.2V DC sensor supply.

Pulse / alarm outputs

Two digital outputs are available which can be configured as a scaleable pulse output or as a a flow rate alarm output. The pulse length can be set to 5msec, 15msec or 100msec. The output is a passive NPN signal.



All info at a glance



to install



to program



know them all!



Reliable

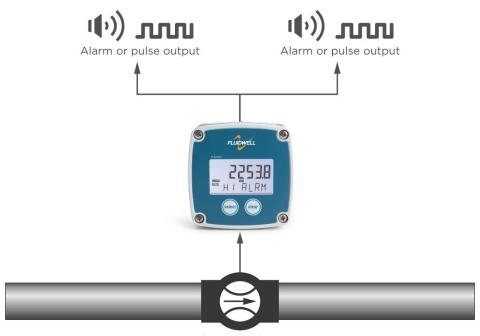


User-friendly



Overview application B-Alert

Basic flow rate monitoring with a precise calculation over the full measurement range, where re-transmission of the totalizer and monitoring of the flow rate function is required. The B-series offers you an economical solution for common industrial applications. Nothing more, nothing less. For intrinsically safe applications we offer our rugged, field mount F-Series indicators. For explosion proof applications we offer our E-Series indicators. For panel mount applications we offer our D-Series indicators.



Flowmeter input

Signal input

The B-Alert accepts the basic flowmeter input signals: Namur, Reed-switch, NPN, PNP and Sine wave (coil). The input signal type can easily be selected in the configuration menu.

Type of signal	Resistance	Low Pass filter (LP)	Max. frequency	Max. frequency Low Pass filter (LP)	Min. amplitude P-P	Remark
NPN	100kΩ pull-up		6 kHz Threshold 1.2V			Open collector
REED		1MΩ pull-up		120Hz		
PNP	47KΩ pull-down		6kHz Threshold 1.2V			
NAMUR	715Ω pull-down		4kHz	-		External power required
COIL	-	-		-	30mV _{pp}	



Enclosures

The smart design of the rugged IP65 (Type 4X) GRP enclosure ensures optimal advantages for various mounting possibilities.

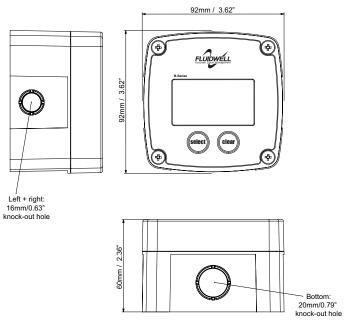
The B-Alert can be field or wall mounted or directly on the flowmeter. The back cover can be turned in steps of 90°, enabling cable entry from any side.

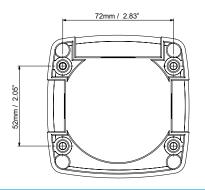
The standard enclosure will be delivered as follows:

- Blue GRP back cover.
- White GRP front cover with blue polyester front foil and Fluidwell logo.

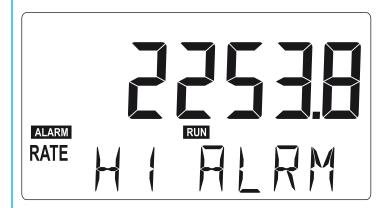
Dimensions enclosure

GRP field mount enclosure





B-Alert display example



Customization options

- Fluidwell blue polyester front foil without logo.
- Custom front foil options. (2, 3, 4 or 5 colors).
- Custom front/back cover color.
- Customized manual cover.
- Customized technical label.
- Customized package label.

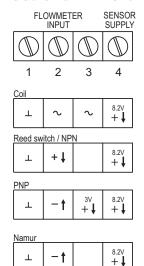




SERVICE CONNECTOR



Terminal connections B-Alert



















Display

Type	High intensity transflective numeric and
	alphanumeric LCD, with white LED backlight.
Dimensions	54 x 29mm (2.13" x 1.14").
Digits	Seven 12mm (0.47") and seven 7mm (0.28")
	digits Various symbols and measuring units.
Refresh rate	During operation 8 times/sec, it will
	automatically switch to 1 time/sec after 30 sec
	without operation.

Operating temperature

Ambient	-20°C to +60°C (-4°F to +140°F).

Power requirements

Basic supply	10 - 30V DC. Max. 25mA.
Note	The basic power supply will also supply the
	backlight or the 8.2V DC sensor supply.
Battery	1 x 3.6V AA Lithium battery - life-time up to
	approx. 2 years.

Sensor excitation

Terminal 3	3V DC for pulse signals and 1.2V DC for coil
	pick-up, I _{out} max. 100μΑ.
Note	This is not a real sensor supply. Only suitable for
	sensors with a very low power consumption like
	coil (sine wave).
Terminal 4	8.2V DC, I_{out} max. 10mA, requires 10-30V DC supply.

Data protection

	running totals every minute. Data retention at least 10 years.
Password	Configuration settings can be password protected.

Directives & Standards

EMC	Directive 2014/30/EU, FCC 47 CFR part 15.
Low voltage	Directive 2014/35/EU
RoHS	Directive 2011/65/EU
IP & NEMA	EN 60529 & NEMA 250

Enclosure

Material	GRP, IP65 (Type 4X), UV-resistant & flame retardant.
Window	Polyester foil window.
Sealing	EPDM gasket.
Control keys	Two industrial micro-switch keys.
Dimensions	92 x 92 x 60mm (3.62" x 3.62" x 2.36") - W x H x D.
Weight	200 gram / 0.44 lbs.
Cable entries	Knock out holes
	Side: 2 x 16mm / 0.63"
	Bottom: 1 x 20mm / 0.73"

Signal outputs - Digital output

Function	 Pulse output: Transmitting accumulated total. 	
	 Alarm output: Low or high flow rate alarm. 	
Frequency	User selectable: Off, Long (5Hz/100msec),	
	Intermediate (33Hz/15ms), Short (100Hz/5msec).	
Output type	Two passive transistor outputs (NPN) - not	
	isolated. 300mA, max. 30V.	

Signal inputs - Flowmeter

Pulse inputs	Coil / sine wave (sensitivity: 30mVpp), NPN,
	PNP, reed-switch, Namur.
Frequency	Minimum OHz - maximum 6kHz for total and
	flow rate. Maximum frequency depends on signal
	type and internal low-pass filter.
K-Factor	0.000010 - 9,999,999 with variable decimal position.

Operator functions

Displayed info	• Flow rate.
	• Total.
	 Accumulated total.
	 Alarm values low and high flow rate.
	 Alarm values can be entered
	 Reset total by pressing the CLEAR-key twice.

Total

Digits	7 digits.
Units	L, m³, US gal, gal, bbl, kg, lb or none.
Decimals	0 - 1 - 2 or 3.
Note	Total can be reset to zero.

Accumulated total

Digits	7 digits.
Units / decimals	According to selection for total.
Note	Can not be reset to zero.

Flow rate

Digits	7 digits.
Units	mL, L, m³, g, kg, ton, gal, bbl, lb, cf or none.
Decimals	0 - 1 - 2 or 3.
Time units	/sec - /min - /hr - /day.

Alarm values

Digits	7 digits.
Units	According to selection for flow rate.
Decimals	According to selection for flow rate.
Time units	According to selection for flow rate.
Type of alarm	According to selection for flow rate.

Terminal connections

Туре	Fixed. Wire max. 1.5mm ²