Your success counts



Basic Flow rate Indicator / Totalizer

nothing more, nothing less













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 and accumulated total.
- 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-Basic accepts the basic sensor input signals:
 Reed-switch, Namur, NPN, PNP, Sine wave (coil)
- Power requirements: Lithium AA battery or 10 30V DC power supply.
- · 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-Basic is a local indicator to display the actual flow rate, total and accumulated total. The total can be reset to zero by pressing the CLEAR button twice. 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 or accumulated total. The 7 alpha-numeric digits (7mm, 0.28") are used for the flow rate measurement units and the clear setup menu messages. For good readings in full sunlight and darkness, the B-Basic is provided with a bright backlight.

Power requirements

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









Easy to install



Easy to program



Know one know them all!



Reliable



User-friendly



Overview application B-Basic

Basic flow measurement where a local flow rate indication and totalizer function is required without re-transmission functionality. 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 and for panel mount applications we offer our D-Series indicators.



Signal input

The B-Basic 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.

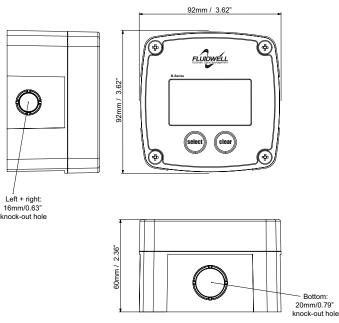
The B-Basict can be field, pipe or wall mounted or directly on the flowmeter. The back cover can be turned in steps of 90°, enabling cable entry from any side.

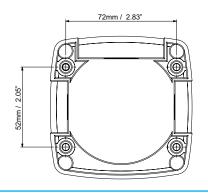
The standard enclosure will be delivered as follows:

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

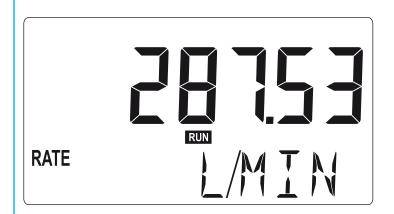
Dimensions enclosure

GRP field mount enclosure





B-Basic display example



Customization options

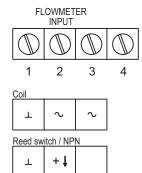
- Fluidwell blue polyester front foil without logo.
- Custom front foil options. (2, 3, 4 or 5 colors).
- Custom front/back cover color.
- Customized manual cover.
- Customized technical label.
- Customized package label.

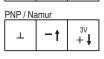






Terminal connections B-Basic





POWER REQUIREMENTS 9 10

10 - 30V DC \perp + 1



NOTE: The 3V sensor supply is not suitable for Namur sensors. External sensor supply is required.



Display

| Туре | 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. 15mA. |
|--------------|---|
| Note | The basic power supply will also supply the |
| | backlight. |
| 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. 100µA. |
| Note | This is not a real sensor supply. Only suitable for |
| | sensors with a very low power consumption like |
| | coils (sine wave). |

Data protection

| Туре | Non-volatile backup of all settings. Backup of |
|----------|---|
| | running totals every minute. Data retention at |
| | least 10 years. |
| Password | Configuration settings can be password protected. |

Terminal connections

| Type Fixed. Wire max. 1.5mm ² |
|---|
|---|

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 inputs - Flowmeter

| Pulse inputs | Coil / sine wave (sensitivity: 80mVpp), 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. |
| | 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. |

