

Flow Rate Indicator / Totaliser



The F012 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. The eleven digit accumulated total however can not be reset to zero. A wide selection of options further enhances the capabilities of this model, Including intrinsic Safety for hazardous are applications.

Features

- Displays instantaneous flow rate, total and accumulated total
- Large 17mm (0.67") digits for flow rate or total
- Easy configuration with clear alphanumerical display
- LED backlight option
- Selectable on-screen engineering units for volumetric or mass
- Ability to process all types of signals: Sine wave (coil), NAMUR, NPN/PNP pulse, Reed-switch, active pulse signals, (0)4-20mA
- Power requirements: Input loop powered, battery powered or 8-30V DC, 24V AC/DC and 115-230V AC
- Sensor supply: 3.2 / 8.2 / 12 / 24V DC
- Auto backup of settings and running totals
- Explosion / flame proof available



Advantages

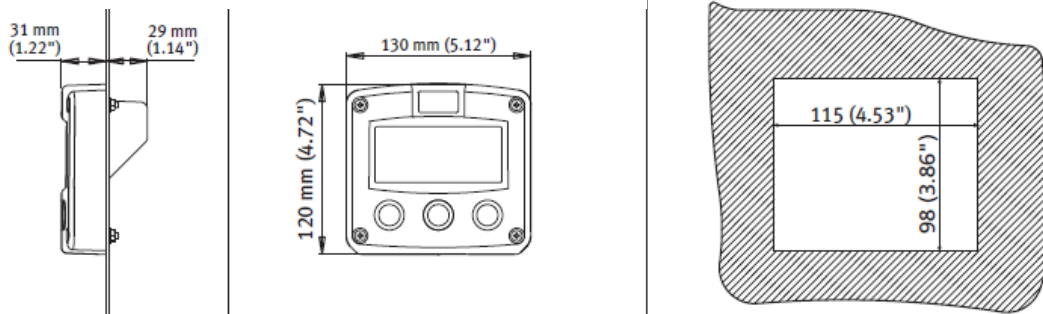
- Robust IP67 (NEMA Type4X) field enclosure. It is so rugged you can even stand on it!
- Intrinsically safe available – ATEX, IECEx, FM and CSA approval for gas and dust applications
- Programming can be done by your own crew, with the sensible menu-driven structure, saving cost and irritation. Know one, know them all!
- Very diverse, mounting possibilities: walls, pipes, panels or directly onto outdoor sensors!

Specifications

| | |
|---------------------------|---|
| Display | |
| Type | High intensity reflective numeric and alpha-numeric LCD, UV resistant |
| Dimensions | 3.5" x 1.6" (90mm x 40mm) |
| Digits | Seven 0.67" (17mm) and eleven 0.31" (8mm) digits. Various symbols and measuring units. |
| Operating temperature | -40°F to +176°F (-40°C to +80°C) (-40°C to +70°C for Intrinsically Safe) |
| Power Requirements | Long life lithium battery life-time depends upon settings and configuration – up to 5 years. |
| Signal Input | Coil/sin wave (HI: 20mVpp or LO: 90mVpp – sensitivity selectable), NPN/PNP, open collector, reed switch, Namur, active pulse signals 8 – 12 and 24V DC |
| Frequency | 0Hz – 6kHz for total and low flow rate. Maximum frequency depends on signal type and internal low-pass filter. E.g. reed switch with low pass filter: max. frequency 120Hz |
| K-Factor | 0.000010 - 9,999,999 with variable decimal position |

Dimensions

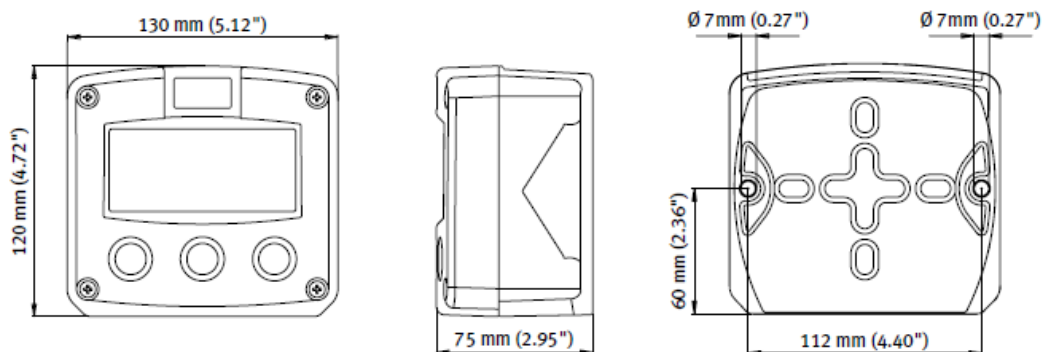
Aluminium & GPR panel mount enclosures



HB & HC enclosures

panel cut-out

Aluminium & GPR field / wall mount enclosures



Product codes

| F012 | | Flow Rate Indicator / Totaliser |
|------------------|---|---|
| Input Enclosures | A | (0)4 – 20mA input |
| | P | Pulse input, eg. Coil, NPN, PNP |
| | HB | Aluminium panel mount enclosure |
| | HC | GRP panel mount enclosure |
| | HD | GRP field mount –Cable entry: no holes |
| | HE | GRP field mount –Cable entry: 2 x 16mm & 1 x 20mm |
| | HF | GRP field mount –Cable entry: 1 x 22 mm (7/8") |
| | HG | GRP field mount –Cable entry: 2 x 20 mm |
| | HH | GRP field mount –Cable entry: 6 x 12mm |
| | HJ | GRP field mount –Cable entry: 3 x 22mm (7/8") |
| | HK | GRP field mount, flat bottom – Cable entry: no holes |
| | HA | Aluminium field mount – Cable entry: 2 x PG9 & 1 x M20 |
| | HL | Aluminium field mount – Cable entry: 2 x 1/2" NPT |
| | HM | Aluminium field mount – Cable entry: 2 x M16 & 1 x M20 |
| | HN | Aluminium field mount – Cable entry: 1 x M20 |
| | HO | Aluminium field mount – Cable entry: 2 x M20 |
| | HP | Aluminium field mount – Cable entry: 6 x M12 |
| | HT | Aluminium field mount – Cable entry: 1 x 1/2" NPT |
| | HU | Aluminium field mount – Cable entry: 3 x 1/2" NPT |
| | HV | Aluminium field mount – Cable entry: 4 x M20 |
| HZ | Aluminium field mount – Cable entry: no holes | |
| Power | PD | 16 – 30V DC & sensor supply |
| | PF | 24V AC/DC + sensor supply – requires XX |
| | PL | Input loop powered from sensor signal type "A" |
| | PM | 115 – 230V AC + sensor supply – requires XX |
| | PX | Basic power supply 8 – 30V DC |
| Battery | PB | Additional lithium battery powered (opt.) – requires XX |
| | PC | Additional lithium battery powered (opt.) – Intrins. Safe – requires XI |
| Hazardous | XI | Intrinsically safe, according ATEX, IECEx, CSA c-us and FM |
| | XF | EX d enclosure – 3 keys according ATEX |
| Options | XX | Safe area only |
| | ZB | Backlight |
| | ZF | Coil input 10mVpp |
| | ZG | Coil input 5mVpp |
| | ZX | No options |

The **bold** marked text contains the standard configuration: F012-P-HC-PX-XX-ZX

F012 20-25

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