

Versaline Flow Meter



Features

- Large display shows pre-set value and running batch value simultaneously.
- Self-learning overrun correction.
- Easy operation to enter a batch value and to control the process.
- Count-up and count-down function available.
- Selectable on-screen engineering units volumetric or mass.
- Ability to process all types of flowmeter signals.
- Operational temperature -40°C up to +80°C (-40°F up to 176°F).
- Rugged aluminium field mount enclosure IP67/NEMA4X.
- Intrinsically Safe ATEX, IECEx, FM and CSA approval for gas and dust applications.
- Explosion/flame proof II 2 GD EEx d IIB T5.
- · LED backlight option.
- Loop or battery powered, 8 24V AC/DC or 115 230V AC power supply.
- Sensor supply 3.2 / 8.2 / 12 / 24V DC.

Signal output

- One control output for one-stage batching.
 Signal input
- Flow
- Reed-switch.
- NAMUR.
- NPN/PNP pulse.
- Sine wave (coil).
- Active pulse signals.
- (0)4 20mA.
- 0 10V DC.

Applications

• For batching small up to very large quantities. Single or repeating batches. Alternative more sophisticated models: F130 - F131, F136 and 300 series.



General information

Introduction

The F030 is a straight forward but basic Batch Controller. The operator can enter a batch quantity easily or execute repeating batches. During the batch, the pre-set value is displayed as well as the batched (or remaining) quantity and the units of measurement. The automatic self-learning overrun correction will ensure an accurate result each batch again. A wide selection of options further enhances the capabilities of this model, including Intrinsic Safety.

Display

The display has large 17mm (0.67") and 8mm (0.31") digits which are used to display the batched quantity and the preset value simultaneously. On-screen engineering units are easily configured from a comprehensive menu. A seven-digit resettable "day total" is available as Well as an eleven digit non-resettable accumulated total. All are backed-up in EEPROM memory every minute. A smart display update function achieves a readable display even at -40°C / -40°F.

Backlight

For those applications where readability during day and night is an issue, a bi-color backlight is available. The background color green or amber and the intensity can be adjusted from the keyboard. The display is a transflective type, which means That a high contrast reading is guaranteed in full Sunlight as well as during the night. This backlight option is available Intrinsically Safe.

Configuration

All configuration settings are accessed via a simple operator menu which can be pass-code protected. Each setting is clearly indicated with an alphanumerical description, which avoids confusing abbreviations. Once familiar with one F-series product, you will be able to program all models in the series without a manual. All settings are safely stored in EEPROM memory in the event of sudden power failure.

Control output

One output is available for one stage control of smaller batch volumes. The output signal can be a passive NPN or an active PNP transistor, or an isolated electro-mechanical relay.

Signal input

The F030 accepts most pulse and analog input signals for volumetric flow or mass flow measurement. The input signal type can be selected by the user in the configuration menu without having to adjust any sensitive mechanical dip-switches, jumpers or trimmers. The analog input version is even available as 4 - 20mA input loop powered display.

Power supply

Several power supply options are available to power the F030 and sensor. A battery powered version with a long-life lithium battery which will last up to five years. For analog sensors, a 4 - 20mA loop powered version is available as well. A real sensor supply is offered with the 24V AC / DC or 115 - 230V AC power supply option.

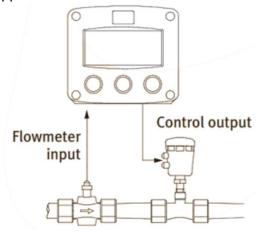
Hazardous area

For hazardous area applications, this model has been ATEX, IECEx, FM and CSA certified Intrinsically Safe for gas and dust applications, with an allowed operational temperature of -40°C to +70°C (-40°F to +158°F). A flame proof enclosure with ATEX certification offers the rating II 2 GD EEx d IIB T5.

Enclosures

Various types of enclosures can be selected, all ATEX, IECEx, FM and CSA approved. As standard the F030 is supplied in an GRP panel mount enclosure. Most popular is our aluminium field mount enclosure with IP67 / NEMA 4X rating. Both European or U.S. cable gland entry threads are available.

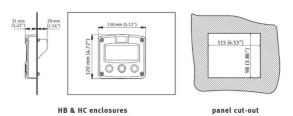
Overview application F030

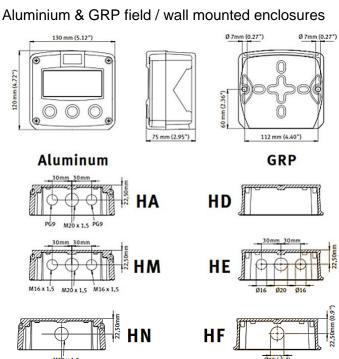


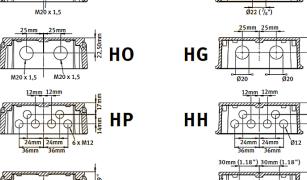


Dimensions Enclosures

Aluminium & GRP panel mount enclosure



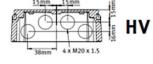




HJ

Flat bottom, no holes available.

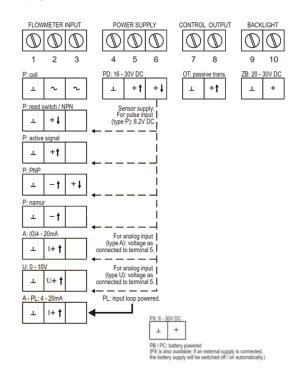






HZ

Terminal connections power supply PB/PC-PD-PL-PX



Terminal connections power supply PF-PM

