F132

Safe area / Intrinsically safe - Batch Controller

with two-stage control and receipt printer driver

RS232 / RS485 / TTL
ASCII Data to receipt printer

2 External inputs:
Start
Pauze/stop

Control output R1
e.g. a valve

Control output R2
e.g. a valve

Flowmeter input

Trend indication   Displayed function   Clear (7 mm (0.67")   Measurement units
numeric digits

ACTUAL   **L**

2973.4

PRESET **213.9**   **L/MIN**

Displayed function   Status indication   Clear 8mm (0.31")
alphanumeric digits
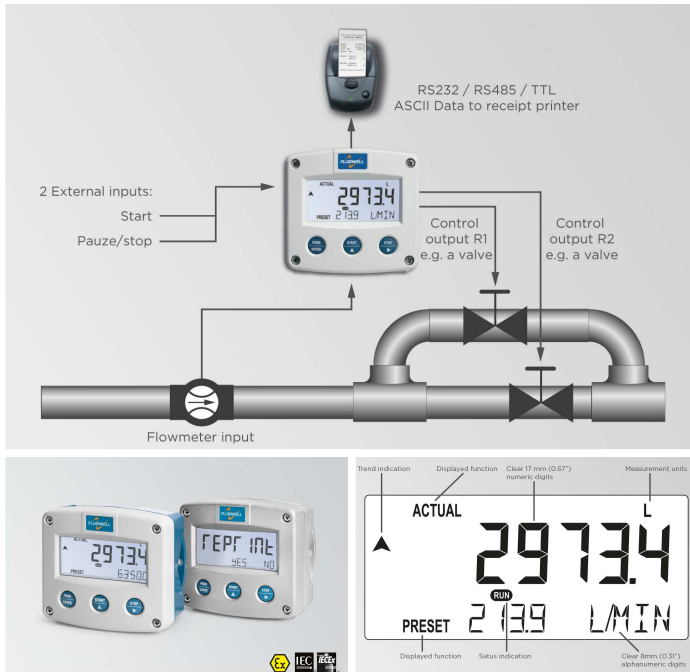
Features

- Receipt printing function after each batch.
- Large display shows preset value and running batch value simultaneously.
- Two-stage control for batching larger quantities.
- Self-learning overrun correction.
- Easy operation to enter a batch value and to control the process.
- Count-up and count-down function available.
- Actual batched quantity: seven 17mm (0.67") digits.
- Preset value: seven 17mm (0.67") digits during programming and 8mm (0.31") digits during batch process.
- Total - resettable: seven 17mm (0.67") digits.
- Accumulated total - not resettable: eleven 8mm (0.31") digits.
- LED backlight.
- Intrinsically safe according ATEX and IECEx.
- GRP, Aluminum or high grade stainless steel enclosure.
- Auto backup of settings and running totals in EEPROM memory.
- Ambient temperature: -40°C to +80°C (-40°F to 176°F).
- Various accessories are available for this product.

Product description

The F132 is a straight forward two stage batch controller with the unique function to send a "print receipt" command to a printer after every batch. The operator can easily enter a batch quantity, send an extra "print receipt" command or execute repeating batches.

During the batch, the preset value is displayed as well as the batched (or remaining) quantity including the units of measurement. The automatic self-learning overrun correction ensures an accurate result after each batch.

Advantages

- Robust aluminum or stainless steel 316L field enclosure (IP65, IP67 / NEMA Type4X) .
  It is so rugged, a truck can even stand on it!
- Intrinsically Safe available - ATEX and IECEx approval for gas and dust applications.
- Familiar easy operation with the Fluidwell "Know one, know them all" configuration structure, saving time, cost and aggravation.

- Very diverse mounting possibilities: walls, pipes, panels or directly onto outdoor sensors.

Applications
- For batching of small and /or large quantities, single or repeating batches where printed information is requested.
- The F-Series is your first and best choice for field mount indicators in safe and hazardous area applications. Especially in harsh weather conditions like rain, snow, sandy deserts, salty atmospheres and temperatures between -40°C up to +80°C (-40°F up to 176°F).

Product specifications

Signal Inputs

Flowmeter Inputs
- Pulse type inputs:
  Reed-switch, open collector, NAMUR, NPN/PNP pulse, Sine wave (coil), active pulse signal.

Status Inputs
- Remote control: start.
- Remote control: pause / stop.

Supply

Power Supply
- Long life Lithium battery.
- 4 – 20mA Output loop-powered.
- 8 – 24V AC/DC.
- 115 – 230V AC.
- Basic: 8 - 30V DC.

Sensor Supply
- 3.2, 8.2, 12, 24V DC.

Signal Outputs

Pulse outputs
- None.

Alarm outputs
- None.

Analog outputs
- None.

Control outputs
- Function: Control outputs for one- or two-stage batching with active overrun correction.
- Type: Two passive NPN transistors, active PNP transistors or isolated electro-mechanical relays.

Hazardous Area

Intrinsically Safe
- ATEX:
  Gas: II 1 G Ex ia IIB/IIC T4 Ga
  Dust: II 1 D Ex ia IIIC T_{200} 100 °C Da
- IECEx:
  Gas: Ex ia IIC/IIB T4 Ga
  Dust: Ex ia IIIC T_{200} 100 °C Da

Explosion Proof
- ATEX/IECEx:
  Gas: II 2 G Ex db IIB+H2 T5 Gb
  Dust: II 2 D Ex tb IIIC T80°C Db

Communication

- Function: Send the "print receipt" data after every batch.
- Protocol: ASCII data.
- Interface: RS232 / RS485 2-wire or 4-wire / TTL.
- Remark: There is no handshaking or interfacing with the printer. Data is sent with plain ASCII characters.