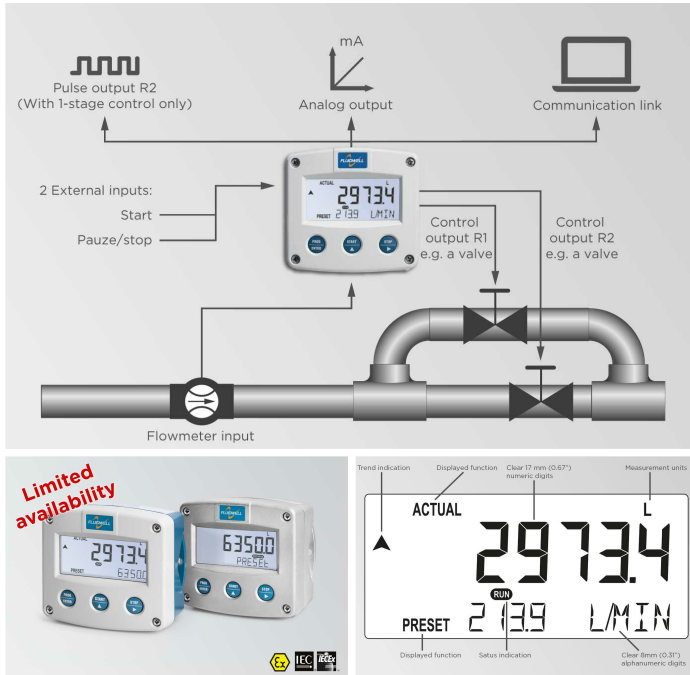


# F131 Safe area / Intrinsically safe - Batch Controller (*Limited availability*)

with two-stage control, pulse output and analog output in relation to the flow rate



## Features

- Large display shows running batch value together with preset value or flow rate.
- Analog output reflecting the actual flow rate.
- Flow rate: seven 8mm (0.31") digits.
- 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.
- Scaled pulse output reflecting accumulated or batched total.
- Actual batched quantity: seven 17mm (0.67") digits.
- Preset value: seven 17mm (0.67") digits during programming and 8mm (0.31") digits during batchprocess.
- 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 F131 offers, in addition to the standard batch control functions, an analog output signal in relation to the displayed flow rate. The operator can enter a batch quantity easily or execute repeating batches.

During the batch, the preset value and flow rate are displayed simultaneously with the batched or remaining quantity. The automatic self-learning overrun correction will ensure an accurate batch every time. On-screen engineering units are easily configured from a comprehensive selection.

## 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 small up to very large quantities including flow rate indication and signal re-transmission.
- 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

- Function: Scaled pulse output according to accumulated total (e.g. a pulse every 3.25 gallons).  
Max. frequency: 500Hz.  
Adjustable pulse length from 0.001 sec. to 9.999 seconds.
- Type: One passive NPN transistor, active PNP transistor or isolated electro-mechanical relay.
- Remark: With pulse output one-stage control only and no communication available.

#### Alarm outputs

- None.

#### Analog outputs

- Function: Re-transmitting the flow rate - the output can be scaled to any range (e.g. 200 L/min to 1200 L/min).
- Type: One passive isolated, floating or loop powered 4 – 20mA output or one active (0)4 – 20mA or 0 – 10V DC output.

### Hazardous Area

#### Intrinsically Safe

- ATEX:  
Gas: II 1 G Ex ia IIB/IIC T4 Ga  
Dust: II 1 D Ex ia IIIC T<sub>200</sub> 100 °C Da
- IECEx:  
Gas: Ex ia IIC/IIB T4 Ga  
Dust: Ex ia IIIC T<sub>200</sub> 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: All process data and settings can be read / modified through the communication link as well as a batch can be started / stopped.
- Protocol: Modbus RTU.

### 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.
- Remark: With two-stage control no pulse output available.

- Interface: RS232 / RS485 2-wire or 4-wire / TTL.

- Remark: With pulse output no communication available.



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We're happy to answer any questions about our products and services.  
Just send us an email or give us a call.