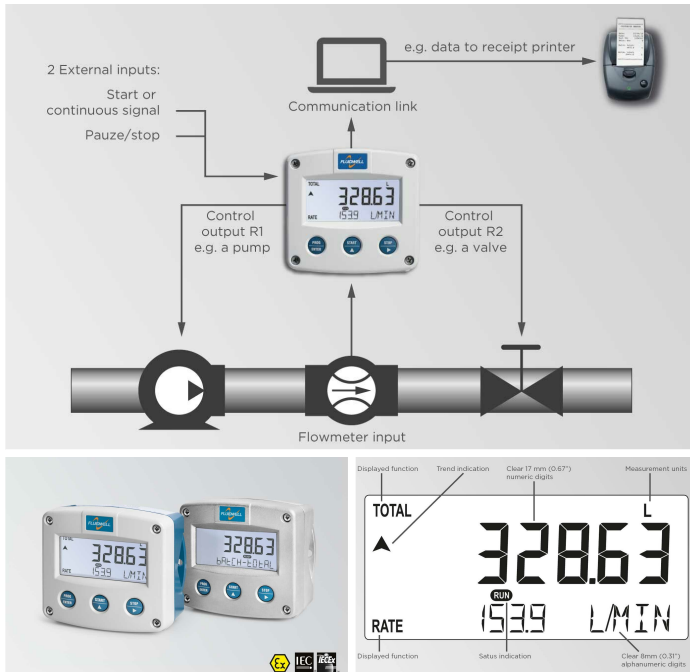


# F133 Safe area / Intrinsically safe - Delivery Controller / Dispenser

with pump start and valve control



## Features

- Large display shows delivered quantity, flow rate and status simultaneously.
- Suitable for filling-up multiple compartments within one delivery.
- Flow rate: seven 8mm (0.31") digits.
- All control functions available for pump start, valve control and flow rate monitoring with flexible response times.
- Seven large 17mm (0.67") digits show the actual delivered quantity.
- Eleven 8mm (0.31") alphanumeric digits for operator instructions.
- Communication link for customized ticket printing.
- Batch counter registers number of executed deliveries.
- 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 F133 is a unique product as it is especially designed for a controlled delivery of undefined quantities. It offers all the functionality known from gas stations to fill-up your car. The unit incorporates special functions with time delays to start a pump first, control a valve and expect a flow within a certain period of time.

Moreover, the flow rate and the allowed total dispensed quantity is monitored as well. If, for whatever reason, no pulses are coming in, the delivery will be terminated after a pre-defined time. Sub-deliveries are also catered for allowing you to fill up several compartments within one and the same delivery. Several resettable and non-resettable totalizers are available as well as a batch counter.

## 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 delivery purposes, small gas stations or on board of ships or trucks for customer deliveries.
- 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, stop, pause or continuous signal.

### 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: One output to control a pump and one output to control the valve.  
After a start-up-time, the valve control output will be switched.
- 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<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 delivery can be started / stopped.  
After the delivery the unit can be locked and the data can be used for ticket printing (B.O.L.).
- Protocol: Modbus ASCII / RTU.

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



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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.