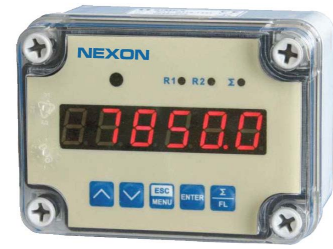


MST100 - Wall Mounted Digital Display Flow Controller

- ▶ 6-digit LED display
- ▶ Flow meter/totalizer/batcher
- ▶ Flow rate/total flow display
- ▶ 1 pulse counting input + 3 control inputs
- ▶ 1 relay(REL)Output
- ▶ Optional isolated current output
- ▶ Power supply output 24V DC
- ▶ RS-485 / Modbus RTU
- ▶ Dose-based batch processing and cumulative metering



MST100 is the flow meter in tight, wall mounted case (IP 65), designed to work in tandem with the pulse flow transducers with coefficients ranging from 0.01 to 9999.99 pulses per litre, equipped with electronic (open collector) or contact input. A flow meter allows to measure the actual instantaneous value and to record the total flow of fluids, gases or bulk materials. Wide range of total flow enables flow volume control for a long time. Build in a batcher function makes possible application of MST100 in a wide range of industry branches (food production, pharmacy, paint and varnish). The counters may have 2 relay (or OC) outputs, depending on the actual instantaneous, batcher or total value of the flow (R1).

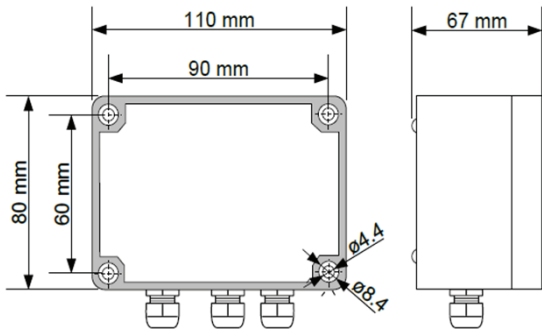
Specifications

Power Supply	19...50Vdc, 16...35Vac or 85...260Vac/Vdc
Power Consumption	Max. 5 VA
Accuracy	Frequency: + 0.02% (full temperature range); Flow: equivalent to used flow sensor precision
Display	LED, 6 x 13mm high, red, brightness adjustable in 8 steps
Display Range	0...999999 + decimal point
Readout Precision	
Flow Rate	Selected in the 0...0.00000 of unit
Total Flow and Batcher	Selected in the 0...0.000 of unit
Inputs(pulse, fully isolated)	Counting input with debouncing filter and pulse width control: max. input frequency 1 0.0 kHz Zeroing of batcher counter: active edge or level Zeroing of total counter: active edge or level Counting blockade: active edge or level; Common (COM)
Input Levels	Low level: 0 V... V; High level: 10 V...30 V
Counter Capacity	
Total flow	over 4x10 ⁹ m ³ (max. 16 significant digits)
Batcher	up to 65536 m ³
Units	
Flow Rate	L or m ³ / per second/minute/hour.
Total Flow and Batcher	L or m ³
Pulse Waiting Time	Settable from 0.1 to 39.9 seconds
Output	
Switching Output	1 x REL, I _{max} =1A, U _{max} =30Vdc/250Vac
Isolated Current Output	Working range Max. 2.8...24 mA, Resolution 13 bit
Sensor power output	24Vdc +5%/-10%, Max. 100 mA (stabilized)
Communication interface	RS-485, 8N1 and 8N2, 1200...115200 bit/s; Modbus RTU
Operating Temperature	0...+50°C
Protection Class	IP65
Dimensions(WxHxD)	Without glands:110 x 80 x 67 mm;With glands:110 x 105 x 67 mm

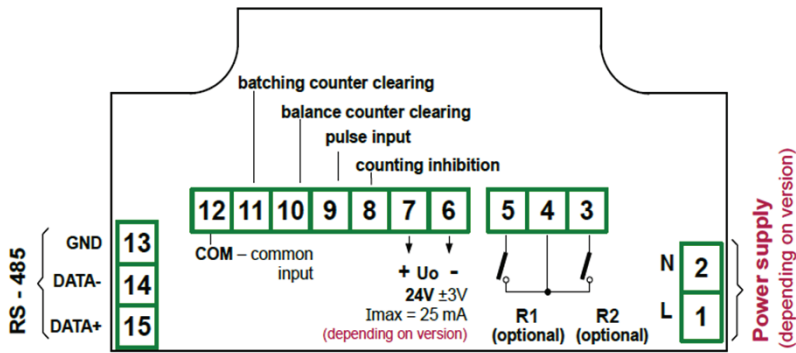
Applications

- ▶ Working with FTB/FGR series

Dimensions in mm



Wiring



Relay output type (suitable for no current output type)

Model Number

OrderNo.	Output Type	Input Type	Power Supply
MST100 P	2 REL + 1 current output + RS485 output	Frequency input	19...50Vdc, 16...35Vac
MST101 I	2 REL + 1 current output + RS485 output	Current input	85...260Vac/Vdc