

MST200 - Standard Panel Mounted Flow Controller

- ▶ 6-digit LED display
- ▶ Flow meter/totalizer/batcher
- ▶ Flow rate/total flow display
- ▶ 1 pulse counting input + 3 control inputs
- ▶ 2 relay (REL) output+1 AO(0/1... 5V,0/2... 10V, no isolation type)
- ▶ Analogue output, 24V DC power supply output
- ▶ RS-485 / Modbus RTU
- ▶ Free configuration software S-Config



The purpose of flow controller working with flow sensor is to measure the flow rate and to record the total flow of media like liquids, gases or loose materials. A wide range of total flow indication (up to 16 digits) allows controlling the flow rate for a long operation time. Thanks to the built-in batcher function the MST200 can be used in many industries like: food pharmaceutical or paint and varnish industry. The REL/OC control outputs can be programmed depending on the flow rate, total flow or batcher. Additionally the controller may be equipped with analogue outputs, according to the customer selection: active current output (0/4 ...20mA) , passive isolated current output (4 ... 20mA) or active voltage output (0/1 ..5V,0/2...10V) . The controller can be configured with the local keyboard or free S-Config software via the RS-485 communication port.

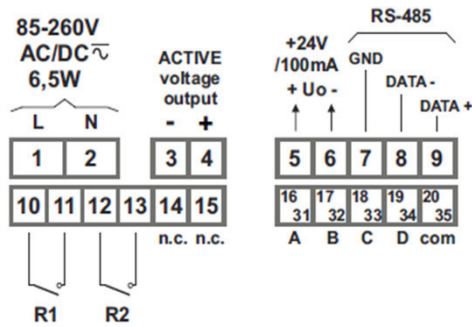
Specifications

Power Supply	19...50Vdc, 16...35Vac or 85...260Vac/Vdc
Power Consumption	Max. 6.5 VA
Accuracy	Frequency:±0.02%(full temperature range) Flow:equivalent to used flow sensor precision
Display	Red LED, 6 x 13 mm height
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
Input Levels(12mA@24V)	Low level: 0 V...1 V; High level: (about 12mA @ 24V)
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	2x REL, I _{max} =1A, U _{max} =30Vdc/250Vac
Active Voltage	0/1...5V, 0/2...10V (max. 0...11V); RA≥2KΩ resolution13 bit
Communication interface	RS-485, 8N1 and 8N2, 1200...115200 bit/s; Modbus RTU
Operating Temperature	0...+50°C
Protection Class	IP 65 (front side when an optional seal is installed); IP 40 (front side); IP 20 (case and connection clips)
Dimensions(WxHxD)	96 x 48 x 100 mm

Applications

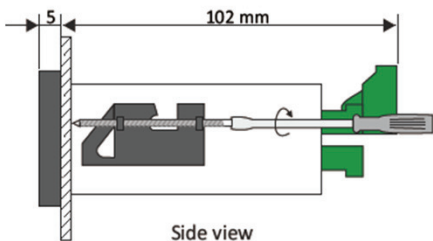
- ▶ Working with FTB/FGR series

Wiring

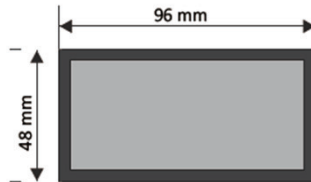


2xREL+1xAO (0/1...5V, 0/2...10V, Unisolated type)

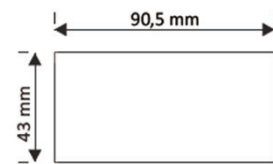
Dimensions



Side dimensioning



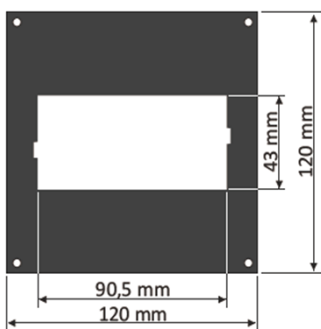
Case dimensions



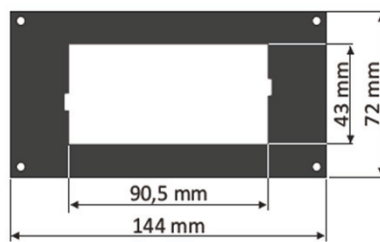
Panel cut-out dimensions

Opening size drawing

Mounting Plates



120x120mm Square mounting panel



144 x 72 mm Rectangular mounting panel

Board Thickness Brackets



Bracket plate thickness 1... 7mm
(2 pieces stand, standard)



Bracket plate thickness 1... 45mm
(2 pieces of support)



Bracket plate thickness 1... 5mm
(2 pieces of support)

Model Number

OrderNo.	Output Type	Input Type	Power Supply
MST200 P	2 REL + 1 current output + RS485 output	Frequency input	19...50Vdc, 16...35Vac
MST201 I	2 REL + 1 current output + RS485 output	Current input	85...260Vac/Vdc