

Coriolis Dosing Mass Flow Meter: Series FMD

Ideal supplement for magnetic-inductive flow measurement:

- compact design
- direct measurement of the mass
- measurement of non-conductive media
- very short dispensing time down to 250ms

Overview

The Dosing Mass flow Meter extends the range of Dosing Sensors with special attention to the dosage of non-conductive media and direct mass dosage.

The devices are designed in a very compact way and can be connected directly to the Compact Controller. The sensor outputs are compatible to those provided by the MID-MDS with UV14.

As a minimum configuration, 24VDC supply, valve input and pulse output can be connected. The pulse factors are adapted to the magnetic-inductive flow meter, so that the devices can be interchanged easily.

Technical Data

Reference accuracy	$\pm 0,5\%$ of measured value	
Repeatability	$\pm 0,1\%$ of measured value	
Dosing time	>250 ms	
Liquid temperature	0°C to 90 °C	
Cleaning	140 °C	
Ambient temperature	0 °C bis 50 °C	
Electr. connection	Power supply	12 - 36 VDC
	Pulse output	
	Valve status	
Process connection	Tri Clamp	DIN 32676
	Sanitary thread	DIN 11851
Materials	Wetted parts	Stainl. steel 1.4571
	Housing	Stainl. steel 1.4301
Protection class	IP 65	



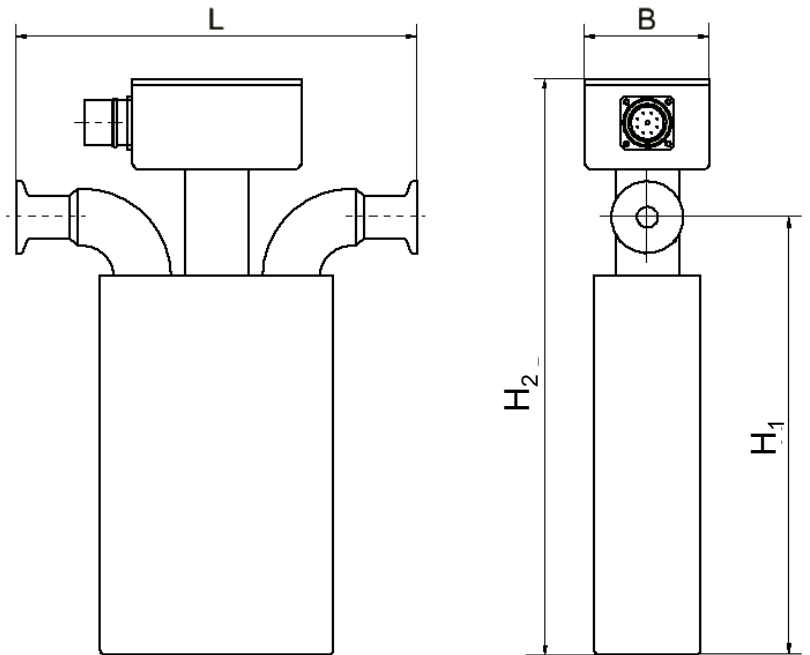
Measuring ranges

Type	Range*	pulse/g
FMD06	1 - 25 kg/min	63,660
FMD08	2 - 45 kg/min	28,293
FMD12	4 - 100 kg/min	15,915
FMD16	10 - 200 kg/min	10,186

Arguments for the Dosing Mass Flow Meter Series FMD

- direct detection of the mass
- measurement of non-conductive media
- very short measurement times are possible
- high accuracy / repeatability
- easy to clean

Dimensions

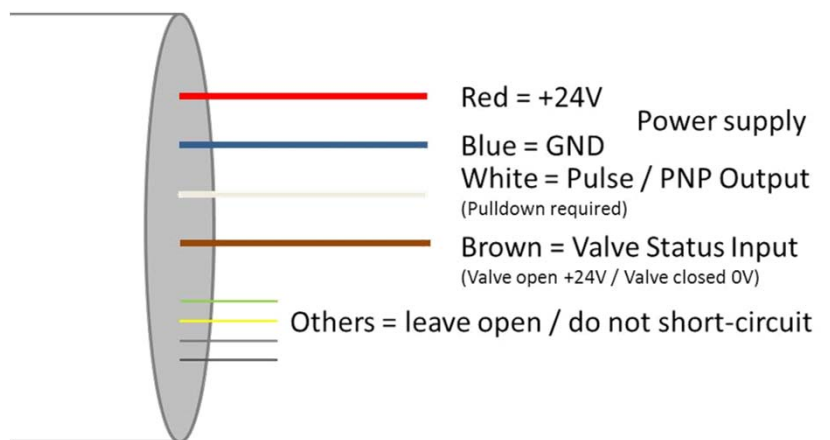


Type	Installation length L [mm]	Height H ₁ [mm]	Total Height H ₂ [mm]	Depth B [mm]	Size
FMD06	190	210	275	60	DN10
FMD08	220	250	315	60	DN15
FMD12	300	300	365	60	DN20
FMD16	380	400	465	60	DN25

Electrical connection

Power supply	12 – 36 VDC < 2W
Pulse output	High Side Driver 20 mA output Pull-Down resistor required
Valve input	Valve open = 1 Valve closed = 0

Wiring



Subject to changes without notice