

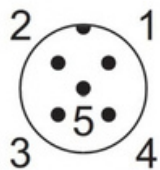


Mass Flow Meter for Gases Model MF5900



This product is designed for general-purpose industrial gas mass-flow measurement; in particular, it is designed to have a low- pressure loss. The meter is packaged in stainless steel and has an operating pressure up to 1.2 MPa.

- Mass flow meter
- Low pressure loss
- Stainless steel package
- 1 MPa rating
- General purpose
- Process line



Wire	Color	Definition
1	Brown	Power 8 ~ 24 Vdc (+)
2	White	RS485B (-)
3	Blue	Ground (Common)
4	Black	RS485A (+)
5	Gray	4 ~ 20 mA output



Specifications

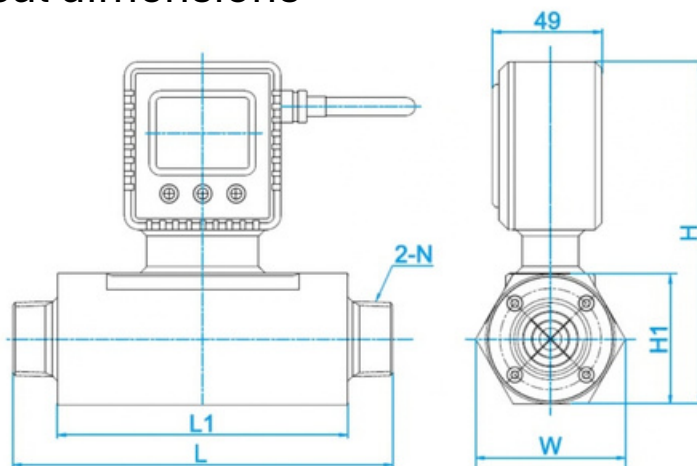
	MF5912	MF5925	MF5940	MF5950	Unit
Flow range	0 ~ 250	0 ~ 1200	0 ~ 2500	0 ~ 4500	SLPM
Accuracy	$\pm(1.5+0.25FS)$				%
Repeatability	$(0.5+0.08FS)$				%
Turn-down ratio	100:1				
Response time	<200				msec
Temperature	-10 ~ +55				°C
Max. Pressure	1.0				MPa
Humidity	<95, no condensation				%RH
Pressure loss	2.0 @1200 SLPM (MF5925)				kPa
Power supply	8 ~ 24				Vdc
Power/data cable	M12				
Digital output	RS485 Modbus half-duplex / 4 ~ 20 mA				
MENU access	3 key – front face keyboard/digital				
Display	LCD, instant, totalizer, or accumulated flow rate				
Resolution	0.01 L/min (instant) / 0.001 m ³ (totalizer or accumulated flow rate)				
Mechanical connection	User selects				
Storage temperature	-20 ~ +70				°C
Reference conditions	20°C, 101.325 kPa, air				
Protection	IP66 (NEMA 4x)				
Fluid compatibility	Non-corrosive				
Wetted materials					
CE	EN61326-1; -2; -3				

*All specifications listed in the following table, unless otherwise noted, apply for calibration conditions at 0 °C and 101.325 kPa absolute pressure with air. The product is horizontally mounted during calibration.

**For other options, please contact the manufacturer.



Mechanical dimensions



	L1	L1	W	H	H1	N
MF5912	160	120	60	150	55	NPT 1/2"
MF5925	160	120	60	150	55	NPT 1"
MF5940	180	130	76	169	70	NPT 1-1/2"
MF5950	200	150	76	169	70	NPT 2"

Product selection and order

The product part number consists of the product model number and suffixes indicating the full-scale flow rate, as well as other parameters. Refer to the following for details.

MF59 - - - -

Gas (A – air; C – CO₂; N – N₂; O – O₂; R – Ar, for other gases, please contact the manufacturer.

Output: B – RS485 Modbus; A – 4 ~ 20 mA.

Maximum full scale flow rate (for other units refer to the table below). If the unit is not SLPM, the unit needs to be specified here.

Mechanical connection: G – BSPP/G ; N – NPT; B-BSPT.

DN (pipe inner diameter: 1/2" (12mm) ~ 2" (50 mm))