

EDC-300 Series



INTRODUCTION

The EDC-300 series is a newly designed new generation MFC/MFM. It adopts many of the world's cutting-edge fluid measurement and control technologies. Based on the capillary thermal temperature difference sensor, it introduces advanced "temperature difference automatic balance technology" to ensure the extraordinary stability of the sensor, linearity, and dynamic response characteristics. The base body is made of 316L stainless steel, which is suitable for toxic and corrosive gases. The maximum working pressure can reach 1500 Psi and the maximum flow can reach 1000 SLM. Newly designed digital measurement control circuit, digital IO multiple communication protocols are optional, compatible with analog communication, optional LCD version, convenient on-site operation display. The outstanding performance of the EDC series is the best partner for high-quality applications.

APPLICATION AREA

Semiconductor manufacturing, photovoltaic equipment, vacuum equipment, material preparation, petrochemical industry, analytical instruments, metal smelting, surface treatment and other fields.

CHARACTERISTIC

- ◆ Precise measurement and control
- ◆ Multi-gas medium switching function
- ◆ Fast response, high repeatability
- ◆ Unaffected by temperature and pressure
- ◆ High pressure difference adaptability
- ◆ Maximum working pressure up to 1500 psi
- ◆ Digital communication, compatible with analog communication
- ◆ Optional LCD screen for local operation and display
- ◆ High-quality digital applications

SPECIFICATIONS

Control range and working pressure

Model	Maximum full scale (N2 standard)	Minimum full scale (N2 standard)	Maximum working pressure
EDC-310/1/5/6	10 SLM	3 SCCM	1500 Psi / 100 Bar
EDC-320/1/5/6	30 SLM	10 SCCM	1500 Psi / 100 Bar
EDC-330/1/5/6	100 SLM	30 SLM	1500 Psi / 100 Bar
EDC-340/1/5/6	200 SLM	100 SLM	500 Psi / 30 Bar
EDC-350/1/5/6	400 SLM	200 SLM	500 Psi / 30 Bar
EDC-360/1/5/6	2000 SLM	400 SLM	500 Psi / 30 Bar

Note: SCCM (standard milliliters per minute) SLM (standard milliliters per minute) standard conditions (0°C, 101.3Kpa)

Performance

Flow Accuracy	±0.8%R.DAND±0.2%F.S;±1%R.DAND±0.5% F.S(Above 100 SLM)
Repeatability	±0.2% F.S
Control Range	1~100% F.S
Response Time	<1S
Temperature Coefficient	ZERO: <0.05% OF F.S/°C. SPAN: <0.1% OF S.P /°C
Pressure Coefficient	0.2% OF S.P/ BAR
Operating Temperature	0~50°C
Leak Rate	1X10 ⁻⁵ ATM. CC/SEC HE
Preheat Time	5 min accuracy to ±2% F.S (30 min to achieve the best accuracy)

Electrical parameters

Power Supply	+15~24 V dc
Maximum Power Consumption	10W (MFC) ;3W (MFM)
Digital Communication	RS-485 (modbus Rtu protocol)
Analog Communication	0~5 V / 4~20mA
Fittings	9-pin D-connector (male)

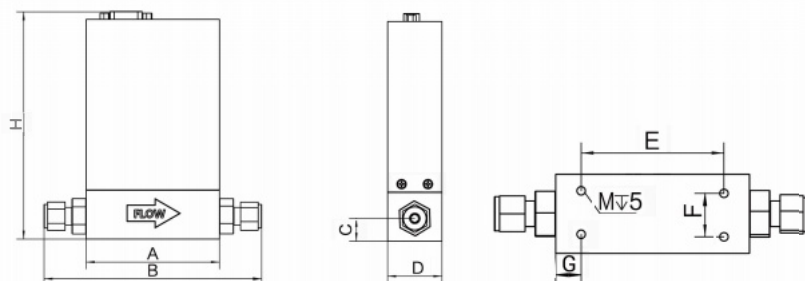
Mechanical parameters

Valve Type	Normally closed (MFM meaningless)
Substrate Material	316L stainless steel
Sealing Material	Fluorine rubber, EPDM rubber, nitrile rubber
Fittings	1/8、1/4、3/8、Φ3、Φ6、Φ9 card sleeve or VCR

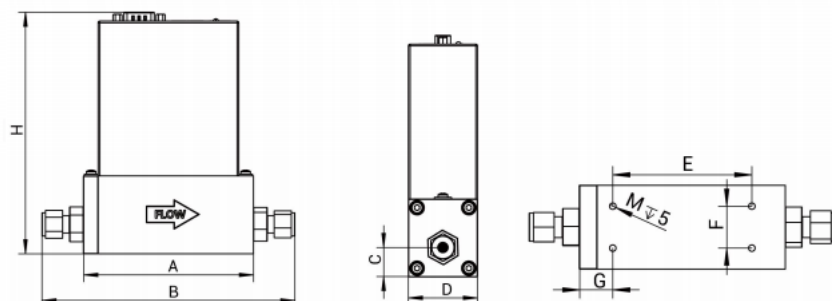


SIZE(mm)&WEIGHT(kg)

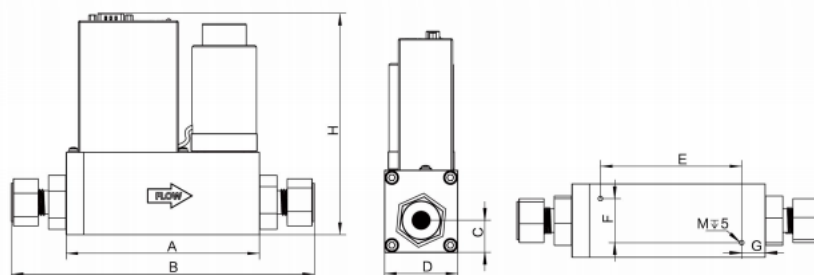
EDC-31x/32x



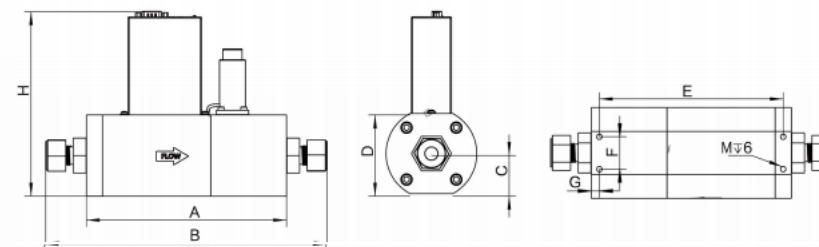
EDC-33x/34x



EDC-35x



EDC-36x



Model	A	B	C	D	H	E	F	G	M	Weight
EDC-310/1/5/6	76	124	13	31	125	56	17	10	M4	0.6
EDC-320/1/5/6	76	124	13	31	125	56	17	10	M3	0.6
EDC-330/1/5/6	98.5	147	17	40	135	66.5	20	16	M4	0.8
EDC-340/1/5/6	98.5	147	17	40	135	66.5	20	16	M4	1.0
EDC-350/1/5/6	132	208	22	50	150	96.5	30	16	M4	1.5
EDC-360/1/5/6	185	260	37	85	170	170	30	7.5	M6	2.5

Selection table
SIZE&WEIGHT

EDC - 3N N

Product Series

High quality digital series

Full scale range

Select according to the
range table

Product type

0 Controller

1 Flow meter

5 with display controller

6 with display flow meters