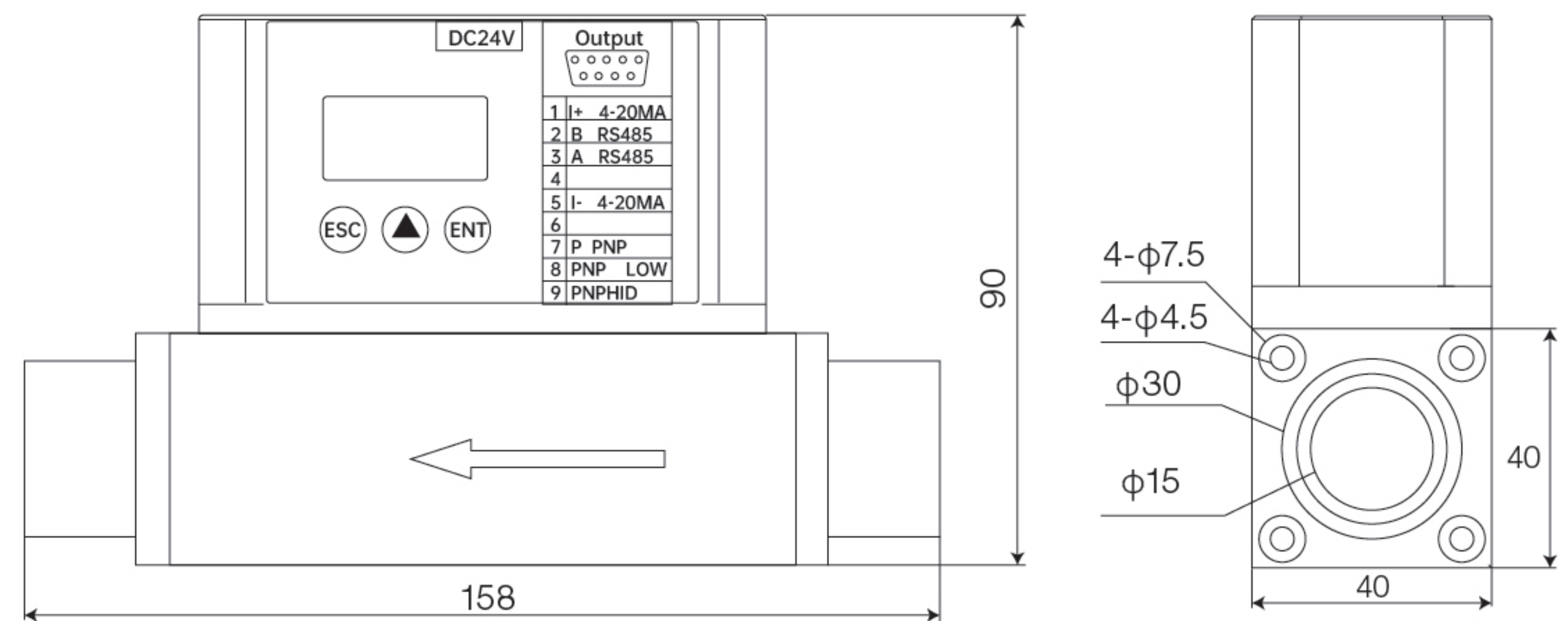


The Series KF152 Thermal Gas Mass Flowmeter

Range from 1 Nml/min - 100 Nml/min to 10 Nml/min - 1000 NL/min



The Series KF152 Thermal Gas Mass Flowmeter is equipped with a MEMS sensor, leveraging their miniaturization and high sensitivity characteristics, to achieve millisecond-level rapid response to capture transient changes in gas flow accurately. It features excellent zero-point stability, maintaining high-precision measurements even under complex operating conditions with minimal repeatability error for reliable data. The device offers a wide turndown ratio and multiple selectable flow ranges to adapt to diverse application requirements. Supporting various signal output methods to meet different system integration needs, it also comes equipped with a standard thread for quick connection with pipelines and equipment, ensuring convenient and efficient installation.

FEATURES

- Utilizes MEMS sensors with fast response time
- Stable zero point, high accuracy, and excellent repeatability
- Wide turndown ratio with selectable flow ranges
- Selectable display orientation (0°, 90°, 180°, 270°)
- Multiple signal output options available
- Optional standard threads

APPLICATIONS

- Semiconductor industry
- Chemical industry
- Pharmaceutical industry
- Food and beverage industry
- Electronics industry
- Environmental protection industry
- Energy industry
- Scientific research field

SPECIFICATIONS

Accuracy	When ≤ 100NL/min: ±(1.0+0.4FS)%; When > 100NL/min: ±(1.5+0.2FS)%
Power Supply	15-24V DC/100mA
Preheating Time	3minutes to 4 minutes
Response Time	50ms
Output	4-20mA or RS485
Zero Drift	±20mV
Display	Instantaneous flow, cumulative flow
Temperature Rating	-10°C to 55°C
Humidity Limit	Humidity: <95%RH, non-condensing
Storage Temperature	-10°C to 65°C
Communication	RS485 (Modbus RTU)
Pressure Rating	≤1.0MPa
Calibration Medium	Air 20°C, 101.325kPa

MODEL CHART

Example	KF152	-F0	-S0	-GN0	-N0	-AIR	
Series	KF152						Thermal Gas Mass Flow Controller
Body Material		F0					Anodized aluminum
		F1					304 stainless steel
		F2					316 stainless steel
Flow Range			S0				1 NmL/min ~ 100 NmL/min
			S1				1 NmL/min ~ 1000 NmL/min
			S2				1 NL/min ~ 100 NL/min
			S3				5 NL/min ~ 500 NL/min
			S4				10 NL/min ~ 1000 NL/min
				SN			
Process Connection				GN0			BSP 1/4" female thread
				PT2			PT 1/2" female thread
				NT			Special-made thread
Output					N0		RS485 + 4-20mA (Default)
					N1		RS485 + PNP
					N2		RS485 + 1 - 5V
					N3		RS485 + 1 - 10V
Medium Type						AIR	Air (default)
						N2	Nitrogen
						O2	Oxygen
						CO2	Carbon dioxide
						MG	Other mixed gases
Note	All flow measurement ranges are data based on air.						