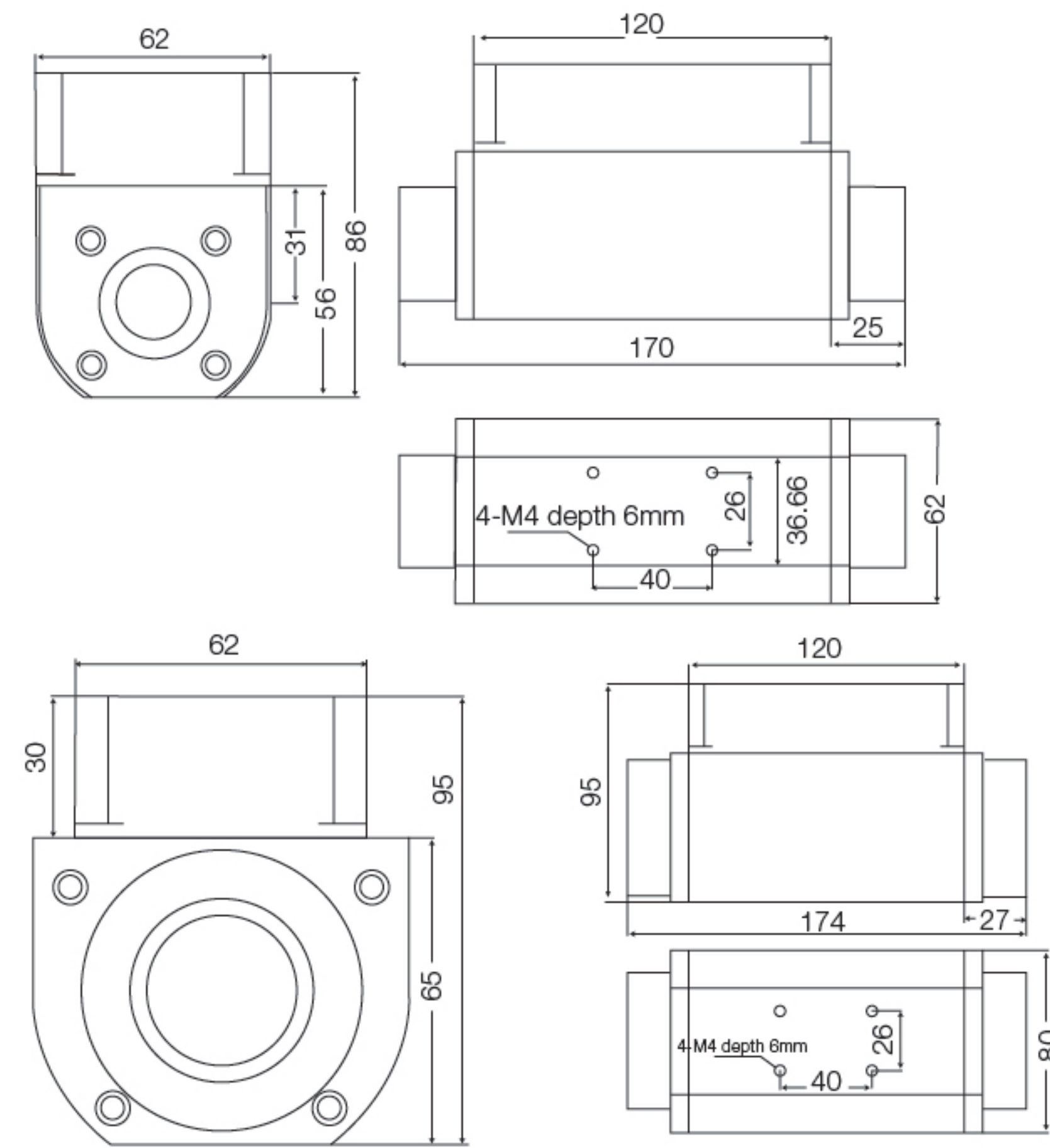


The Series KF140 Thermal Gas Mass Flowmeter

Stable zero point, high accuracy, and excellent repeatability



The Series KF140 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	±(1.5+0.2FS)%
Power Supply	24V DC/1A
Response Time	1s - 5s
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	≤1.6MPa
Calibration Medium	Air 20°C, 101.325kPa

MODEL CHART

Example	KF140	-15	-M050	-GN3	-NO	-AIR	-P0	
Series	KF140							Thermal Gas Mass Flowmeter
Pipe Size		15						DN15, Flow Range: 0.2Nm³/h - 18Nm³/h
		20						DN20, Flow Range: 0.6Nm³/h - 60Nm³/h
		25						DN25, Flow Range: 1Nm³/h - 100 Nm³/h
		32						DN32, Flow Range: 1.6Nm³/h - 160 Nm³/h
		40						DN40, Flow Range: 2.4Nm³/h - 240Nm³/h
Max Flow			Mxxx					M080 means 80Nm³/h, M200 means 200Nm³/h
Process Connection				GN1				1/2" female (DN15)
				GN3				3/4" female (DN20)
				GN4				1" female (DN25)
				GN5				1-1/4" female (DN32)
				GN6				1-1/2" female (DN40)
Output					N0			4-20mA + RS485 (Default)
					N1			4-20mA + 1-5V
					N2			4-20mA + Pulse + RS485
Medium Type						AIR		Air (default)
						N2		Nitrogen
						O2		Oxygen
						CO2		Carbon dioxide
						MG		Other mixed gases
Pressure Rating							P0	≤1.6MPa (default)
							P1	Customized other pressure ratings
Note	All flow measurement ranges are data based on air.							