KMG THERMAL MASS FLOWMETER

KOBOLD's KMG flowmeter line offers thermal mass flow metering technology at break-through pricing. Available with or without display, the KMG is suitable for both remote and local flow rate measuring applications. The sensor may be calibrated for any dry gas compatible with its wetted parts.

For remote sensing applications, the KMG provides a 0-5 VDC output as standard equipment. Should a 4-20 mA output be desired, it can be provided instead.

Unlike most mass flow sensors, KOBOLD's KMG may be installed in any orientation imaginable without loss of accuracy. A two second response time ensures that changes in flow rate are captured quickly by the flowmeter operator. Its small, compact size allows the KMG to fit into spaces typically inaccessible to mass flow technology.

With this many things going for it, why not contact your KOBOLD representative to discuss how the KMG can help provide a first class solution to your gas measuring problems, on an economy class budget?

Specifications

Accuracy

Units to 500 sccm: ± 2.0% of full scale Above 500 sccm: ± 2.5% of full scale accuracy specs include NOTE: linearity errors and are valid for 10:1 turn-down **Repeatability:** ± 0.5% of full scale Linearity Units to 500 sccm: ± 0.5% of full scale Above 500 sccm: ± 1.0% of full scale Turn-Down 10:1 Max. Accuracy: Max. Sensitivity: 50:1 **Drift Coefficients** ±0.1%/°F Temperature: Pressure: ±0.02%/PSI Applicable Media: Clean, dry gases Filtration: 20 micron filter recommended Temperature Range: 50 to 120°F Max. Pressure: **150 PSIG** w/ Option C1 or C2: 500 PSIG Leak Integrity: 1 x 10⁻⁴ scc/sec. He Installation: Orientation independent Wetted Parts Fittings: Acetal Compression **Optional:** Brass or SS Compression Flow Path: Aluminum, Viton®, 304/316 SS, epoxy



KOBOLD KMG Thermal Mass Flowmeter & Flow Sensor

Electrical Specificat Input Power	ions	Display: Hook-Up:	into 500 ohms max 3¼ digit LCD via supplied 24"
KMG-1000:	12–15 VDC, 100 mA		cable
KMG-2000:	12–15 VDC, 120 mA	Dimensions	
With 4–20 mA:	24 VDC, 150 mA	Width:	1.87 inches
Response Time:	$2 \sec t_0 + 2\%$ flow	Depth:	1.03 inches
Output Signal:	0–5 VDC	Height	
eutput eighun	into 2500 ohms min	With Display:	5.0 inches
Optional:	4–20 mA	No Display:	3.55 inches

KMG Ordering Information						
Air Ranges						
	Pressure		Model Number			
Range SCCM	Drop (inches H ₂ O)	Fittings (tube)	Without Display	With Display		
0 – 20	0.8	1/8"	KMG-1002	KMG-2002		
0 – 50	1.0	¹ /8"	KMG-1003	KMG-2003		
0 – 100	1.0	¹ /8"	KMG-1004	KMG-2004		
0 – 200	1.0	¹ /8"	KMG-1005	KMG-2005		
0 – 500	1.0	¹ /8"	KMG-1006	KMG-2006		
0 – 1,000	1.0	¹ /8"	KMG-1007	KMG-2007		
0 – 2,000	1.0	¹ /8"	KMG-1008	KMG-2008		
0 – 5,000	1.3	¹ /8"	KMG-1009	KMG-2009		
0–10,000	1.8	1/4"	KMG-1010	KMG-2010		
Options			Model Number Suffix			
Brass Compression Fittings			C1			
Stainless Steel Compression Fittings			C2			

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36