

Cole-Parmer® Low-Cost Flowmeters/Flow Transmitters

Get faster performance with miniature coil design

- All meters feature 0 to 5 VDC output signal for data logging or controlling other instruments

These low-cost flowmeters use a thermal gas flow sensing technique that results in highly accurate readings and repeatability. See “How it Works” on page 735 for more information on mass flowmeter operation. All units are calibrated to air/nitrogen—call our Application Specialists for meters calibrated to other gases or gas mixtures. Meters feature a cable hub connector for a quick connection to a power supply and 0 to 5 VDC output cable; order power supplies/ cables below right. Flowmeters are available without display or with 3½-digit LCD. Display tilts up to 90° for easy viewing.

Flowmeters have low pressure drop across the sensor. The output signal can connect to a remote display, recorder, or any instrument that accepts a 0 to 5 VDC signal. Compact size makes it easy to carry around. Order rechargeable battery kit below right.

Wetted materials are anodized aluminum, 316 stainless steel, Viton® O-rings, and acetal fittings (316 stainless steel fittings on models 32711-36 to -52 and 32712-36 to -52). Each meter includes two compression fittings and a 36" (0.9 m) long cable with hub connector. All have metric-reading scales.



REQUIRED System Components

- 1) Flowmeter
- 2) Power supply/cable

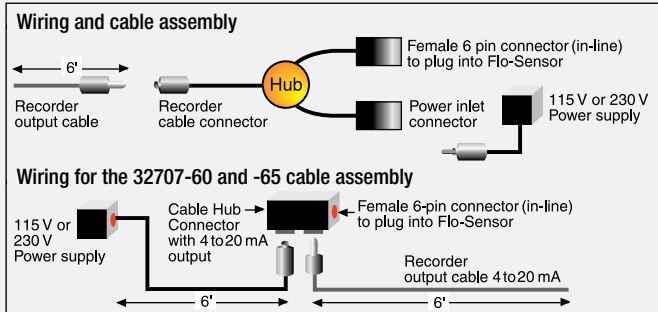


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Flowmeter with display 32707-20

Specifications

- Max particulate size:** 20 microns
- Accuracy:** ±1.5% full-scale including linearity (see below for details)
- Accuracy coefficient, temperature:** ±0.15% per °C full-scale
- Accuracy coefficient, pressure:** ±0.02% per psi full-scale
- Repeatability:** ±0.5% full scale
- Response time:** 2 seconds (typical) to within ±2% of actual flow rate from 25 to 100% of full scale
- Operating temperature:** 50 to 122°F (10 to 50°C)
- Maximum system pressure:** 150 psi (10.3 bar)
- Leak integrity:** 1 x 10⁻⁴ sccs He (max)

- Transducer input power:** 12.5 to 15 VDC; 100 mA max
- Output signal:** linear 0 to 5 VDC (2500 Ω minimum load)
- Connection fittings:**
 - Models 32707-00 to -10 and 32707-20 to -30: 1/8" compression fittings
 - Models 32707-12, -14 and 32707-32, -34: 1/4" compression fittings
 - Models 32707-16, -36, 32711-36, and -40, and 32712-36, and -40: 3/8" compression fittings
 - Models 32711-44 to -52 and 32712-44 to -52: 1/2" compression fittings



2. Power Supply/Output Cable (required). The cable provides both power to the flowmeter, and transmits output signals. Select a power supply/output cable for 0 to 5 VDC output signal or for 4 to 20 mA output signal. Both power supply cable and output cable are six feet (1.8 m) long. Order from table below.

Rechargeable Battery Kit makes your flowmeters portable. Use flow meters for more than 8 hours without recharging. Batteries can be recharged at least 500 times. Kit contains batteries, charger, output cable, and carrying case with shoulder strap. Order from table below.

Flow rate	Pressure drop (max flow)	Without display		With 3½-digit LCD	
		Catalog number	Price	Catalog number	Price
1. Flowmeters with acetal fittings					
0 to 20 sccm	1" H ₂ O	GH-32707-00		GH-32707-20	
0 to 50 sccm	1" H ₂ O	GH-32707-02		GH-32707-22	
0 to 100 sccm	2" H ₂ O	GH-32707-04		GH-32707-24	
0 to 200 sccm	2" H ₂ O	GH-32707-06		GH-32707-26	
0 to 500 sccm	2" H ₂ O	GH-32707-08		GH-32707-28	
0 to 1000 sccm	3" H ₂ O	GH-32707-10		GH-32707-30	
0 to 2 sL/min	3" H ₂ O	GH-32707-12		GH-32707-32	
0 to 5 sL/min	3" H ₂ O	GH-32707-14		GH-32707-34	
0 to 10 sL/min	10" H ₂ O	GH-32707-16		GH-32707-36	
1. Flowmeters with stainless steel fittings					
0 to 20 sL/min	3" H ₂ O	GH-32711-36		GH-32712-36	
0 to 50 sL/min	10" H ₂ O	GH-32711-40		GH-32712-40	
0 to 100 sL/min	10" H ₂ O	GH-32711-44		GH-32712-44	
0 to 500 sL/min	50" H ₂ O	GH-32711-52		GH-32712-52	

Description	115 VAC models		230 VAC models	
	Cat. no.	Price	Cat. no.	Price
Power supply and output cable (0 to 5 VDC output)	GH-32707-50		GH-32707-55	
Power supply and output cable (4 to 20 mA output)	GH-32707-60		GH-32707-65	
Rechargeable battery kit	GH-32707-70		GH-32707-75	

[GH-32707-85](#) Cable from meter to existing power supply

[GH-32707-80](#) Extension cable lengthens flowmeter cable by six additional feet

[GH-17080-10](#) NIST-traceable recalibration with data