

Cole-Parmer® Pressure/Vacuum Systems

Customize to your needs

1. Sensors provide improved tracking ability and maintain calibration over long periods of time. When replacing a sensor, you do not need to recalibrate. These sensors are suited for use with mercury and oil pumps.

Pirani type sensors offer enhanced stability and an automatic temperature compensation network. The 304 stainless steel sensors operate at half the temperature of standard thermopile sensors. Use for high-vacuum applications.

Diaphragm type sensor offers quick response—less than 400 milliseconds full-scale. Select a diaphragm type sensor made from 316 stainless steel or silicon based on your application.

2A. Indicators provide precise digital readout of pressure/vacuum. Single-hole installation lets you mount meters into panel cutouts that measure 23/4" (7.0 cm) square or 23/4" (7.0 cm) up to 33/8" (8.6 cm) in diameter (such as those for Hastings, Varian, TeleVac, and other meters). Mounting hardware is included.

Indicators include 10-ft (3.0-m) cable to connect sensor and 51/2-ft (1.7-m) power cord for 115 VAC operation. Order optional 20-ft (6.1-m) extension cable below—extension won't affect calibration.

2B. Controllers have all of the features of the indicators plus two independently set SPDT relays for control of high and low limits. Easily adjust set points to any value with front-panel push buttons; connect relay outputs at screw terminals at back of unit.

3. Calibrators let you readjust your meter or controller display quickly and easily to factory specifications ($\pm 0.2\%$). Calibrators provide precise zero and span input values.



REQUIRED System Components

- 1) Sensor
- 2A) Indicator or
- 2B) Controller
- Optional
- 3) Calibrator



Specifications

Indicators and Controllers

Analog output:

1 mV/digit (2-pin connector included)

Relays (controllers only): separate relays for high and low set points; SPDT with 3 A, noninductive contacts at 115 VAC; three-pin screw terminal

Power: 115 VAC, 50/60 Hz

Range	Resolution	Accuracy	1. Sensors			2A. Indicators		2B. Controllers		3. Calibrators	
			Cat. no.	Connection	Price	Cat. no.	Price	Cat. no.	Price	Cat. no.	Price
Systems with Pirani type sensor											
0.01 to 100 mTorr	0.01 mTorr	$\pm 5\%$ of rdg or ± 0.03 mTorr	GH-68801-40	NW 16		GH-68801-00		GH-68801-20		GH-68801-60	
			GH-68801-50	3/4" tube OD; vacuum							
1 to 2000 mTorr	1 mTorr	$\pm 5\%$ of rdg or ± 3 mTorr	GH-68801-41	NW 16		GH-68801-01		GH-68801-21		GH-68801-61	
			GH-68801-51	1/2" NPT(M); vacuum							
0.01 to 20 Torr	0.01 Torr	$\pm 5\%$ of rdg or ± 0.03 Torr	GH-68801-42	NW 16		GH-68801-02		GH-68801-22		GH-68801-62	
			GH-68801-52	1/2" NPT(M); vacuum							
Systems with 316 stainless steel diaphragm type sensor											
1 to 1500 Torr	1 Torr	$\pm 1\%$ of rdg or ± 1 Torr	GH-68801-43	NW 16		GH-68801-03		GH-68801-23		GH-68801-63	
			GH-68801-53	1/4" NPT(M); vacuum							
Systems with silicon diaphragm type sensor											
1 to 1500 Torr	1 Torr	$\pm 1\%$ of rdg or ± 1 Torr	GH-68801-47	NW 16		GH-68801-03		GH-68801-23		GH-68801-63	
			GH-68801-57	1/2" NPT(M); vacuum							

[GH-68801-70 Case](#). Measures 5 3/8"L x 3 3/4"W x 3 3/4"H (13.6 x 9.5 x 9.5 cm)

DigiVac™ Vacuum Controller

Get more control of your system

- Minimize corrosion with 316 SS vacuum path
- Easy control from 1 to 760 Torr

Unit includes a gas independent, isolated, stainless steel sensor and stainless steel piping to enable implementation in the most corrosive environments. Bleed valve that adds bleed control from atmospheric pressure. The controller features full manual control via a front-panel dial or control remotely via RS-232.



Specifications

Accuracy: ± 1 Torr	Media compatibility: air
Operating temperature: 50 to 104°F (10 to 40°C)	Process connection: 3/8" barb
Maximum pressure: 45 psia	Power: 100 to 240 VAC, 50/60 Hz
	Output: RS-232

Range	Catalog number	Price
0 to 760 Torr	GH-07379-24	

[GH-17090-29](#) NIST-traceable calibration with data