

# Differential Pressure Gauges / Transmitters

## 4 to 20 mA signal for low air or gas pressure—positive, negative or differential

Series 605 Magnehelic® indicating transmitters simultaneously provide local indication on a large, easily-read analog scale while also converting that pressure into a standard two-wire, 4 to 20 mA signal for ranges from 0 to 1 through 0 to 10 in. WC.

Positive, negative or differential air and compatible gas pressure can be measured with an accuracy of  $\pm 2\%$  of full scale. The basic mechanical components of the indicating transmitter are similar to those used in the popular, time-proven differential pressure gauge. However, these models add electrical conditioning and amplification of a resistance change, produced by a silicon strain gauge which is cemented to the range spring. This resistance change is the result of the slight flexing which results from spring deflection as pressure is applied to the diaphragm, which is directly linked to the spring.



68463-06

### SPECIFICATIONS

Static accuracy	$\pm 2\%$ span for 1 in. WC; .5 % span for 2 in. WC and up
Repeatability	0.5% span
Span and zero	Adjustable to 0.05%
Zero output	4 mA
Full scale span	16 mA
Dial size	4" (102 mm)
Operating temperature	20 to 120°F (–7 to 49°C) in dry air
Compensated temperature	30 to 120°F (–1 to 49°C)
Thermal errors	$\pm 1\%$ / 50°F
Media compatibility	Air and noncombustible, noncorrosive gases
Pressure connections	$\frac{1}{8}$ "-27 NPT(F)
Power supply	10 to 35 VDC
Connections	2 screw terminal block, positive and negative
Output signal	4 to 20 mA DC (limited at 38 mA)
Loop resistance	0 to 1250 $\Omega$
Warm-up time	5 to 10 minutes
Current consumption	38 mA max. DC
<b>Note:</b> Performance at room temperature.	

**What's included:** Mounting ring, snap ring, four 6-32 x  $\frac{1}{4}$  screws (panel mount), three 6-32 x  $\frac{3}{16}$  screws (surface mount), two tubing to  $\frac{1}{8}$ " NPT adapters,  $\frac{1}{8}$ " NPT plugs, and adjustment key.

Catalog No.	Model No.	Range	Minor divisions	Max pressure	
TS-68473-06	605-1	0 to 1 in. WC	0.01	25	
TS-68473-07	605-2	0 to 2 in. WC	0.05	2	
TS-68473-08	605-3	0 to 3 in. WC	0.10	2	
TS-68473-09	605-6	0 to 6 in. WC	0.20	2	
TS-68473-10	605-10	0 to 10 in. WC	0.20	2	
<b>Accessories</b>					
TS-65600-10	—	NIST-traceable calibration with data			

### Process Panel Meter

- Universal AC and DC power
- User programmable inputs and buttons
- PC software programmable
- 9 digit totalizer
- 20 readings per second
- 16 point linearizer
- Selectable built-in excitation
- Minimum and maximum memory capture
- Optional custom units overlay with backlight
- NEMA 4X / IP65 front



65590-10



Catalog No.	Model No.	Range	Minor divisions	
MC-65590-10	PAXP0010	$\frac{1}{8}$ DIN process input panel meter (0 to 20 mA, 0 to 10 VDC) 11 to 36 VDC / 24 VAC		