

Heavy Duty Pressure Transducers

MLH Series, 6 bar to 550 bar | 50 psi to 8000 psi

Table 3. Environmental and Mechanical Specifications

Characteristic	Parameter
Material in contact with media: port diaphragm	stainless steel 304L Haynes 214 alloy
Housing material	black plastic – Amodel AS-4133 HS – PPA
Weight (typical for Metri-Pack 150 and 1/8 NPT pressure port types)	57.0 g [2.0 oz]
Shock	100 g peak [11 ms]
Vibration	MIL-STD-810C, Figure 514.2-5, Curve AK, Table 514.2-V, Random Vibration Test (overall g rms = 20.7 min.)
Compensated and operating temperature range: 0.5 Vdc to 4.5 Vdc ratiometric output all regulated and 4 mA to 20 mA outputs	-40 °C to 125 °C [-40 °F to 257 °F] -40 °C to 125 °C [-40 °F to 257 °F] (See Figures 1 and 2 for operating area details.)
Storage temperature range	-40 °C to 125 °C [-40 °F to 257 °F]
Approvals	RoHS, CE, UL Component Recognition for USA and Canada: File No. E258956

Table 4. Performance Specifications (At 25 °C [77 °F] and under unless otherwise noted.)

Characteristic	Parameter
Response time	<2 ms
Accuracy ¹ : ≥100 psi ≤100 psi	±0.25 %FSS ±0.50 %FSS
Total Error Band ² : Gage: <300 psig ≥300 psig Sealed gage: ≥300 psis without L, M, P electrical connector types: 100 psis to 299 psis (-40 °C to 85 °C [-40 °F to 185 °F]) 100 psis to 299 psis (>85 °C to 125 °C [>185 °F to 257 °F]) ≥300 psis (-40 °C to 125 °C [-40 °F to 257 °F]) with L, M, P electrical connector types: 100 psis to 299 psis (-40 °C to 65 °C [-40 °F to 149 °F]) 100 psis to 299 psis (>65 °C to 125 °C [>149 °F to 257 °F]) ≥300 psis (-40 °C to 65 °C [-40 °F to 149 °F]) ≥300 psis (>65 °C to 125 °C [>149 °F to 257 °F])	±3 %FSS ±2 %FSS ±2 %FSS ±3 %FSS ±10 %FSS ±2 %FSS ±10 %FSS ±15 %FSS ±5 %FSS ±15 %FSS

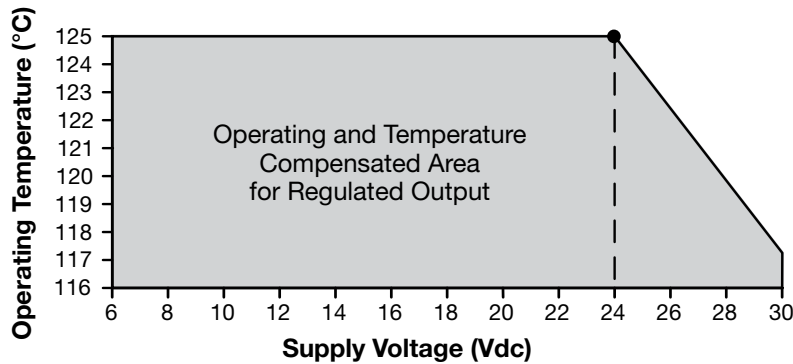
¹ Includes pressure non-linearity (BFSL), pressure hysteresis and non-repeatability. Thermal errors are not included.

² Includes zero error, span error, thermal effect on zero, thermal effect on span, thermal hysteresis, pressure-non-linearity, pressure hysteresis and non-repeatability.

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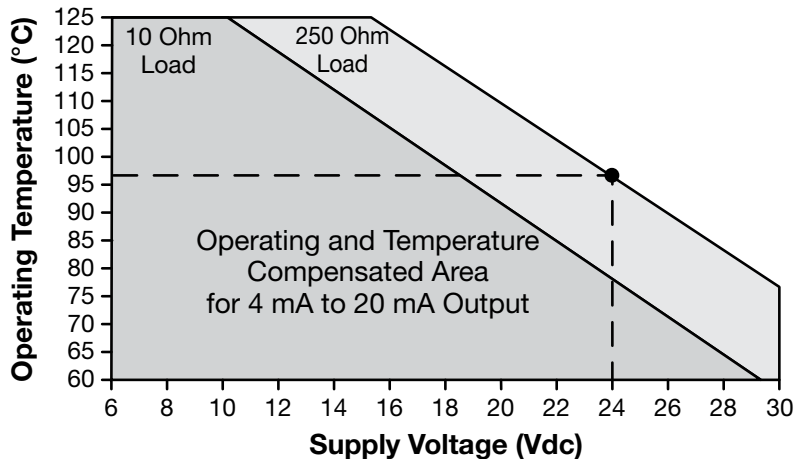
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Figure 1. Operating and Temperature Compensation for All Regulated Output Options



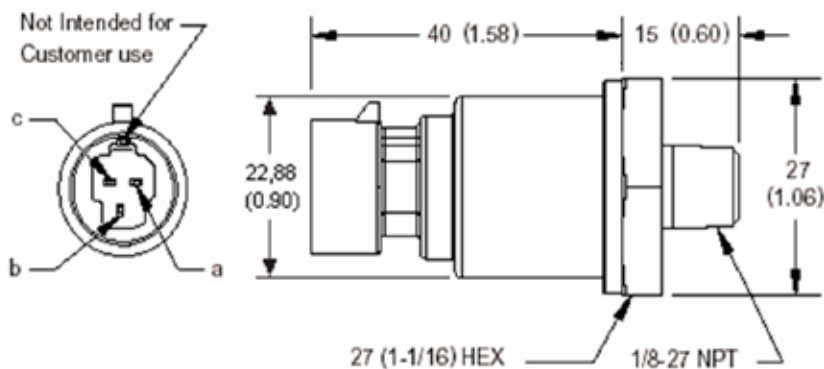
Note: Dot indicates the maximum operating temperature of 125 °C [257 °F] with a 24 V supply.

Figure 2. Operating and Temperature Compensation for 4 mA to 20 mA Output



Note: The operating area is extended with a 250 Ohm resistor. Higher loads extend the operating area. Dot indicates the maximum operating temperature when using a 24 V supply and a 250 Ohm resistor.

Figure 3. Example Mounting Dimensions (Electrical Termination “B” Shown. For reference only. mm/(in.))



Pin/Wire Colors

Pin	Voltage	Current
a	+ excitation	+ excitation
b	output	- excitation
c	common	no connection

A variety of pressure ports and electrical termination connection options are available. Refer to the Figure 4 for possible combinations. Contact your Honeywell representative for details.