

"HA" Mini Pressure Transmitters

Introduction

Anderson-Negele's HA "Mini" sanitary pressure transmitter is specifically designed for critical measurements in fractional size lines. The product can be ordered with 3/4", 1", or 1-1/2" Tri-Clamp® connections as well as our CPM fitting. This eliminates the need for reducers or adapters, thus reducing hold-up volumes in small lines. Internal zero and span adjustments and easily accessible test points greatly simplify calibration and validation. 316 "L" stainless steel wetted parts are electro-polished to an $R_a = 8$. Finally, since it's an Anderson-Negele "Life Sciences Series" product, every transmitter includes a calibration certificate and permanent tag at no charge. Complete specifications appear below, with an ordering matrix and dimensions on the reverse.



Specifications

Excitation:	10-40 VDC (Absolute), 24 VDC Nominal regulated or unregulated	Over-Range Rating:	2 times base range
Output:	4-20 mA DC, 2 wire with non-interrupting circuit verification test points	Response Time:	200 uSec
Loop Resistance:	0-700 ohms at 24 VDC	Wetted Parts:	316L stainless steel electropolished (Ra max. = 8 microinches, .2 microns)
Wiring Connection:	16 AWG max.; Screw Terminal; Accessible via removable screw cap conduit housing Optional 5pin M12 Quick Disconnect Receptacle	Housing Material:	304 stainless steel
Recommended Cable:	22-24 AWG, foil shielded, and PVC coated. (3/16 - 1/4 OD insulation)	Actuating Fill:	100% mineral oil. Meets FDA requirements (21 CFR, 172.878 and 178.3620(a))
Accuracy:	± 0.5% of full scale	Zero and Span Adjustments:	± 10% of range
Repeatability:	± 0.3% of full scale	Mounting:	Direct connection
Hysteresis:	± 0.10% of full scale	Electrical Ratings:	Intrinsically safe for use in Class 1, Div. 1, Groups A-D; CE Compliant (EMC Industrial Locations)
Linearity:	± 0.10% of full scale	Standards:	Designed and manufactured to sound engineering practices in accordance with Article 3.3 of the PED 97/23/EC
Stability:	± 0.30% of calibrated range/6 months		NEMA 4X
Storage Temperature:	-40°C to 65°C (-40°F to 149°F)		IP66
Process Temperature Limits:	-1°C to 149°C (30°F to 300°F) (Horizontal Mount recommended over 135°C (275°F))		CSA B51-03
Ambient Temperature Limits:	-18°C to 49°C (0°F to 120°F)		CRN# CSA0F9754.5C (except Mini CPM fitting 161)
Effect of Temperature Change:	± 0.1 psig/5.5°C (10°F) typical		