

# Autoclaveable HA Pressure Transmitter

## Introduction

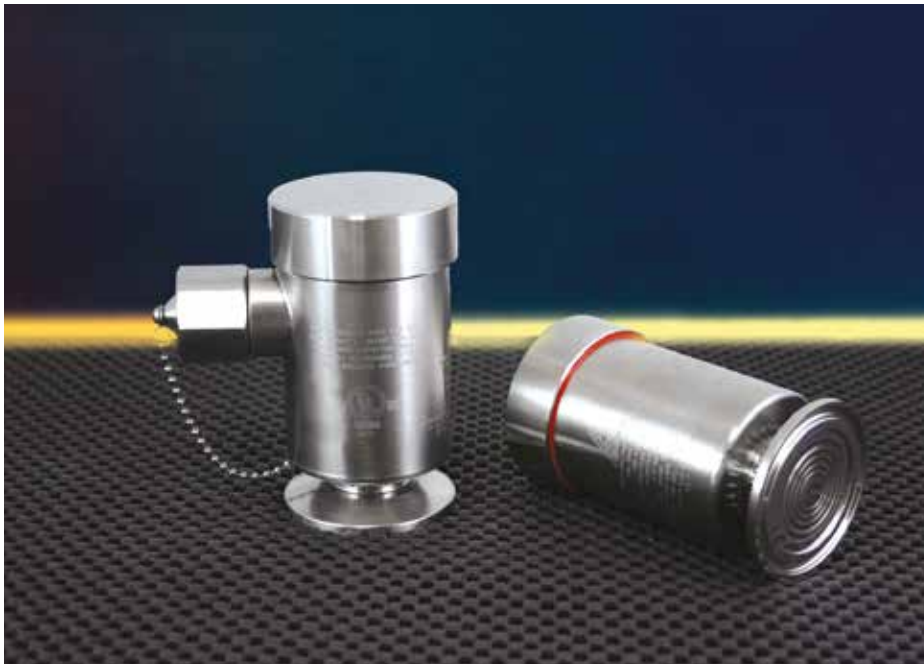
Anderson-Negele's Autoclaveable HA Sanitary Pressure Transmitter is specifically designed for critical measurements in applications where equipment is autoclaved. Developed from the highly stable "Mini" HA Pressure Transmitter, the Autoclaveable HA takes the versatility of a small form factor transmitter to the next level by withstanding the stress of the autoclave environment. Its one-piece stainless steel package design incorporates a transducer and electronic circuitry to convert pressure and/or vacuum to a proportional 4-20 mA signal.

The product can be ordered with 1-1/2" Tri-Clamp® connection or our CPM fitting that eliminates hold-up volumes in process lines. All units are supplied factory calibrated to standard or custom ranges. For field maintenance, non-interactive zero, and span adjustments, as well as easily accessible test points that greatly simplify calibration and validation. 316 "L" stainless steel wetted parts are electro-polished to an Ra=8. Finally, since it's an Anderson-Negele "Life Sciences Series" product, every transmitter includes calibration and material certificates and permanent tag at no charge.

Complete specifications and ordering information are available on the reverse. For more information please visit our Web Site at [www.anderson-negele.com](http://www.anderson-negele.com), or contact your local Authorized Anderson-Negele Distributor.

## Features

- Compact low profile design
- Output remains stable through repeated autoclave cycles
- Rated NEMA 4X & 6P, IP67 & 69k



**Specifications**

Excitation: 10-40 VDC (Absolute), 24 VDC  
Nominal regulated or unregulated

Output: 4-20 mA DC, 2 wire with non-interrupting circuit verification test points

Loop Resistance: 0-700 ohms at 24 VDC

Wiring Connection: 5pin M12 Quick Disconnect Receptacle

Recommended Cable: 22-24 AWG, foil shielded, and PVC coated. (3/16 - 1/4 OD insulation)

Accuracy: ± 0.4% of full scale

Repeatability: ± 0.2% of full scale

Hysteresis: ± 0.10% of full scale

Linearity: ± 0.10% of full scale

Stability: ± 0.15% of calibrated range for 6 months or 30 Autoclave cycles

Effect of Temperature Change: ± 0.1 psig/5.5°C (10°F) typical

Max. Autoclave Temperature: 124°C (255°F) for 1 hour

Process Temperature Limits: -1°C to 149°C (30°F to 300°F)  
(Horizontal Mount recommended over 135°C (275°F))

Ambient Temperature Limits: -18°C to 49°C (0°F to 120°F)

Storage Temperature: -40°C to 65°C (-40°F to 149°F)

Over-Range Rating: 2 times base range

Response Time: 200 uSec

Wetted Parts: 316L stainless steel electropolished (Ra max. = 8 microinches, .2 microns)

Housing Material: 304 stainless steel

Actuating Fill: 100% mineral oil. Meets FDA requirements (21 CFR, 172.878 and 178.3620(a))

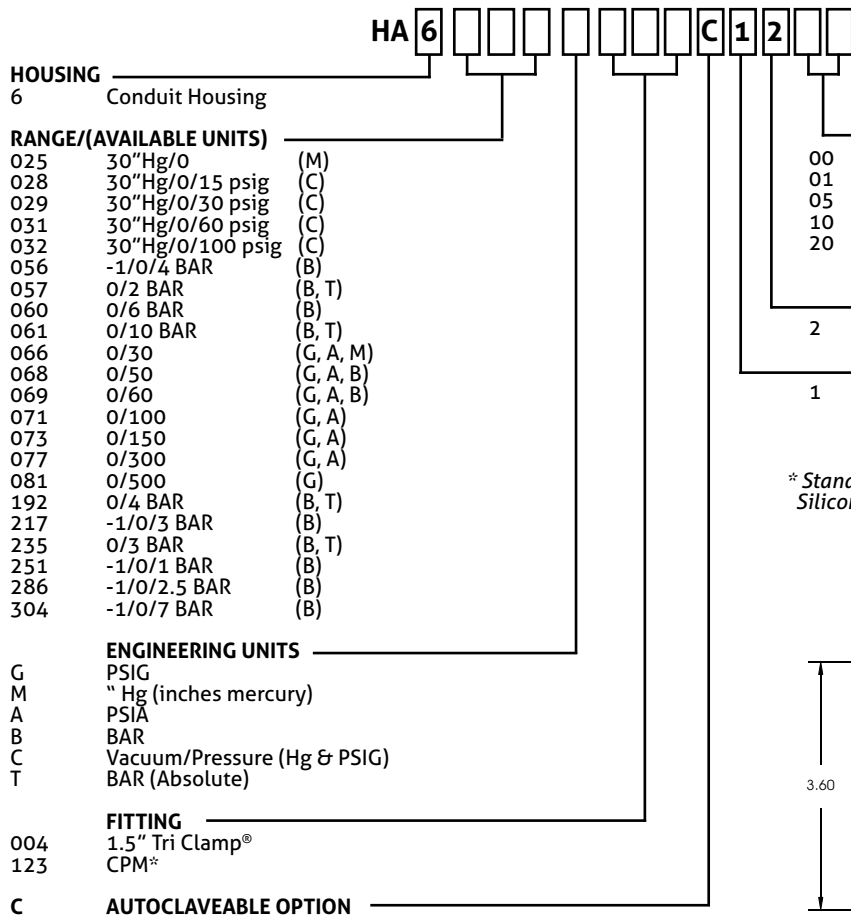
Zero and Span Adjustments: ± 10% of range

Mounting: Direct connection

Electrical Ratings: Intrinsically safe for use in Class 1, Div. 1, Groups A-D; CE (EMC Industrial Locations)

Compliant Standards: Designed and manufactured to sound engineering practices in accordance with Article 3.3 of the PED 97/23/EC  
NEMA 4X & 6P  
IP67 & 69k  
CSA B51-03

**Order Information**



**CABLE LENGTH**  
Quick Disconnect Receptacle(QDR) w/no cable  
QDR & Field Wireable Connector(FWC) w/no cable  
QDR w/25 ft Standard Molded Cordset  
QDR w/50 ft Standard Molded Cordset  
QDR w/100 ft Standard Molded Cordset

**FINISH**  
Electropolished (R<sub>s</sub> = 8)

**DIAPHRAGM MATERIAL**  
316L Stainless Steel

\* Standard O-Ring material is EPDM USP Class VI Silicon or Viton available as an option

