

# CLARK Series 110 Sanitary Pressure Transmitter

Two & Three-wire, 4-20mA or Voltage output, Vacuum to 400 PSIG

## DESCRIPTION

The Series 110 Sanitary Pressure Transmitter is designed for heavy duty sanitary applications where high accuracy and durability are required. Using diffused semiconductor sensor technology these transducers are stable, accurate, shock resistant and extremely durable.

The housing is constructed of 316SS and welded to the process connection for greater strength and integrity. The available 1 1/2 inch or 2 inch Tri-Clamp® connection, with its integral cooling extension, is 316L stainless steel and wetted parts are electro-polished to Ra25 microinch or better.

Series 110 Sanitary Transmitters meet 3A requirements for the food & beverage, dairy, pharmaceutical and biotechnology industries in addition to ASME BPE-2002 and are CE compliant.

A final electrical output and calibration inspection is performed on all transmitters prior to shipment to ensure 100% "out-of-the-box" reliability.

## SPECIFICATIONS

Output Signals: 4-20 mA 2-wire; 0V-5 Vdc, 3-wire; 1-5 Vdc, 3-wire; 1-6 Vdc, 3-wire; 0-10 Vdc, 3-wire; 1-11 Vdc, 3-wire  
 Pressure Ranges: Standard gauge ranges from vacuum to 400 PSIG  
 Proof Pressure: 3 times Full Scale for ranges 0-2 PSIG through 0-200 PSIG; 1.75 times Full Scale for ranges 0-300 PSIG through 0-400 PSIG  
 Burst Pressure: 3.8 times Full Scale for ranges 0-2 PSIG through 0-200 PSIG; 4 times Full Scale for ranges 0-300 PSIG through 0-400 PSIG  
 Accuracy: ±0.25% Full Scale (B.F.S.L), ±0.125% Full Scale (optional)  
 Repeatability: ±0.05% Full Scale  
 Hysteresis: ±0.1% Full Scale  
 Stability: ±0.2% Full Scale for 1 year, non-accumulating

Power Supply: 10-30Vdc for current output 14-30Vdc for voltage output  
 Case Materials: 316 stainless steel  
 Temperature Ranges: Compensated 32°F to 175°F (0°C to 80°C)  
 Effect: ±0.01%/°F for zero and span  
 Ambient: -40°F to 176°F (-40°C to 80°C)  
 Adjustment: ±10% Full Scale for zero and span  
 Environment Protection: NEMA 4X, IP65 (IEC 529)  
 Electromagnetic Rating: CE compliant to EMC norm EN61326: 1997/A1: 1998 RFI, EMI, ESD protection  
 Electrical Protection: Reverse polarity, overvoltage and short circuit protection  
 Process Connection: 1 1/2 inch or 2 inch Tri-Clamp®  
 Seal Housing Material: 316L stainless steel  
 Diaphragm Material: 316L stainless steel electropolished to Ra25 or better  
 Fill Fluid: White Oil (FFL 77), USP grade  
 Media Temperature: -40°F to 300°F (-40°C to 150°C)



## ORDERING INFORMATION

SELECT FROM EACH COLUMN OF ABOVE CHART  
 EXAMPLE: 110-12-4-615-1-34-1-1

A Model	B Clamp Size	C Seal Fill Fluid	D Inventory ID Number	E Accuracy	F Pressure Range	G Output Signal	H Electrical Connection
110	12=1-1/2" 16=2"	4=FLL77 White Oil	615	1=±0.25% F.S. 2=±0.125% F.S.	01=30" HG to 0 psig 04=30" Hg to 15 psig 31=0-100" w.c. 34=0-5 psig 37=0-10 psig 40=0-15 psig 43=0-30 psig 46=0-60 psig 49=0-100 psig 52=0-150 psig 58=0-200 psig 61=0-300 PSIG 64=0-400 PSIG	1= 4-20mA	1=36" cable attached to Hirschmann 8=Hirschmann (DIN 43650A) 14=1/2" ISO 4400 conduit 23=cable gland with internal junction box 29=1/2" NPT female conduit w/internal junction box 36=integral 36" cable

## DIMENSIONS INCHES(MM)

