

Product Information - SR

SR Sanitary Electronic Pressure Transmitter

Introduction

The Anderson-Negele SR series pressure transmitter offers not only a low profile design, but may be ordered with built-in LCD indication. The unit meets all sanitary requirements for finish and cleanability. It is designed and manufactured to withstand the harsh process and environmental conditions encountered in the food, dairy, and beverage industries.

Its one-piece stainless steel design incorporates a transducer and electronic circuitry to convert pressure and/or vacuum to a proportional 4-20 mA signal. The wide variety of fittings and ranges provide flexibility in specifying the best transmitter for any application. The unit is designed to operate at high process temperatures and withstand CIP/SIP conditions.

All units are supplied factory calibrated to standard, or custom ranges. For field maintenance, non-interactive zero, and span adjustments, as well as field accessible test points are provided. The optional LCD cap mounted display can be scaled to match actual process units, 0-100% of full scale, or 4-20 mA. This useful feature provides indication directly at the process, in addition to the standard 4-20 mA output.

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

Authorizations



Features

- All-welded stainless steel construction
- · Compact, low profile design
- Meets all FDA, USDA, and CGMP requirements
- · 3-A compliant; Third party verified
- Product contact surface 316L stainless steel, optional Hasteloy "C" diaphragm
- Optional cap mounted LCD indicator



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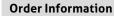
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Specifications

Specifications			
± 0.5% of span, full sca 0-50 psig ±1% full sca PSIA ranges are ±1%. Repeatability: Hysteresis: Linearity (BFSL): Stability: Over-Range Rating: Zero and Span Adjustments: Output:	peatability, linearity, and hysteresis): cale, for standard ranges except ranges below ale. All vacuum/pressure ranges and High pressure (Homogenizer) fittings: ±.75%. Better than 0.3% FSO Less than 0.2% FSO ± 0.2% FSO ± 0.3% of calibrated range/6 months 2 times base range, or 12,000 psig, whichever is less ± 10% of range 4-20 mA DC	Process Temperature Effect: Response Time: Ambient Temp. Operating Range: Storage Temperature: Mounting: Housing Material: Housing Ratings: Wetted Parts: Surface Finish	±0.1 psig/5.5°C (10°F) 200 μSec 0° to 120°F (-17.8° to 48.9°C) -40° to 149°F (-40° to 65°C) Direct connection 304 Stainless Steel NEMA 4X, IP-66 316L Stainless Steel standard; Hasteloy "C" diaphragm optional (Std. for homogenizer fittings)
Excitation: Loop Resistance: Indication: Process Temperature Range:	12-40 VDC (Absolute), 24 VDC Nominal regulated or unregulated. 17-45 VDC (Absolute) with display. 0-600 ohms at 24 VDC 0-900 ohms at 30 VDC Optional, 3-1/2 digit, .5" high LCD, cap mounted 20° to 300°F (-6.7 to 148.9°C) (Horizontal mounting recommended for continuous operation over 275°F/135°C)	(wettable parts): Recommended Cable: Wiring Connection: Standards:	Ra max = 25 microinches (.6 microns) 18-24 AWG, foil shielded, and PVC coated. (3/16 - 1/4 OD insulation) Screw Terminal; Accessible via removable screw cap conduit housing Designed and manufactured to sound engineering practices in accordance with Article 3.3 of the PED 97/23/EC
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025 028 029 031 032 066 068 069 070 071 073 074 075 077 081 084	RANGE (Available Units) $30/0$ (M) 086 $0/2,000^{1}$ (G) $30/0/15$ (C) 088 $0/3,000^{1}$ (G) $30/0/15$ (C) 090 $0/5,000^{1}$ (G) $30/0/30$ (C) 090 $0/5,000^{1}$ (G) $30/0/100$ (C) 093 $0/10,000^{1}$ (G) $30/0/100$ (C) 094 $0/15,000^{3}$ (G) $0/30$ (G,A) 095 $0/20,000^{3}$ (G) $0/30$ (G,A) 095 $0/20,000^{3}$ (G) $0/30$ (G,A) 251 $-1/0/1$ (B) $0/60$ (G) 286 $-1/0/2.5$ (B) $0/99$ (G) 217 $-1/0/3$ (B) $0/100$ (G,A) 056 $-1/0/4$ (B) $0/150$ (G,A) 304 $-1/0/7$ (B) $0/160$ (G,A) 057 0-2 (B) $0/200$ (G,A) 192 0-4 (B) $0/300$ (G,A) 192 0-4 (B) $0/500$ (G) 060 0-6 (B) $0/1000$ (G) 061 0-10 (B)			00 05 10 20 24 A0 A1 A2 A3 A5 A9	 CABLE LENGTH No Cable 25' 50' 100' 200' Quick Disconnect Receptacle (QDR) QDR & Field Wireable Connector (FWC) QDR w/25 ft Molded Cordset QDR w/50 ft Molded Cordset QDR w/100 ft Molded Cordset QDR w/200 ft Cable DIAPHRAGM FINISH Standard (R_a25)
G M B B	ENGINEERING UNITS PSIG Hg (inches Mercury) PSIA BAR			1 2	- DIAPHRAGM MATERIAL 316L Stainless Hastelloy "C" (Standard for fittings 056, 057, 058, 117, 157)
C 004 005 010 011 016 017 027 028 044 045 056 057 058 059 117	Vacuum/Pressure ("Hg & PSIG) FITTING 1-1/2" Tri-Clamp® 2" Tri-Clamp® 1-1/2" APC "K" 2" APC "K" 1-1/2" Cherry "I" (male) 2" Cherry "I" (male) 1-1/2" G & H "H" line (male) 2" G & H "H" Line (male) 1-1/2" # 14 Bevel Seat (w/nut) 2" # 14 Bevel Seat (w/nut) 2" # 14 Bevel Seat (w/nut) High Pressure (Homogenizer) w/out Flange High Pressure (Homogenizer) with 7/8" Flange High Pressure (Homogenizer) with 1-1/8" Flange 1-1/2" NPT ⁴ High Pressure (Rannie) ⁴			On ² If c ³ Ava	 DISPLAY VALUE None PSIG² PSIA BAR mA (milliamphere, for vac/press.) % (percent, for vac/press.) ailable with High Pressure Fittings Ny (056-058; 117,157). over 1,000 PSIG, units are PSIG X 10. ailable with High Pressure Fitting 157 On t 3-A compliant
129 131 157	38mm IDF w/Nut 4 51mm IDF w/Nut 4 High Pressure (Niro) 4				CSI