Product Information - SR FOOD

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

Specifications

Accuracy (includes repeatability, linearity, and hysteresis): ± 0.5% of span, full scale, for standard ranges except ranges below 0-50 psig ±1% full scale. All vacuum/pressure ranges and

PSIA ranges are ±1%. High pressure (Homogenizer) fittings: ±.75%.

Repeatability: Better than 0.3% FSO Hysteresis: Less than 0.2% FSO Linearity (BFSL): ± 0.2% FSO

Stability: ± 0.3% of calibrated range/6 months Over-Range Rating: 2 times base range, or 12,000 psig,

whichever is less

Zero and Span

Adjustments: ± 10% of range Output: 4-20 mA DC

Excitation: 12-40 VDC (Absolute), 24 VDC Nominal regulated or unregulated.

17-45 VDC (Absolute) with display.

Loop Resistance: 0-600 ohms at 24 VDC 0-900 ohms at 30 VDC

Indication: Optional, 3-1/2 digit, .5" high LCD, cap

mounted

Process Temperature

Range: 20° to 300°F (-6.7 to 148.9°C)

(Horizontal mounting recommended for continuous operation over 275°F/135°C)

Process Temperature

Effect: ±0.1 psig/5.5°C (10°F)

Response Time: 200 µSec Ambient Temp.

Operating Range: 0° to 120°F (-17.8° to 48.9°C)
Storage Temperature: -40° to 149°F (-40° to 65°C)

Mounting: Direct connection
Housing Material: 304 Stainless Steel
Housing Ratings: NEMA 4X, IP-66

Wetted Parts: 316L Stainless Steel standard; Hasteloy "C" diaphragm optional

(Std. for homogenizer fittings)
Surface Finish

(wettable parts): Ra max = 25 microinches

(.6 microns)

Recommended Cable: 18-24 AWG, foil shielded, and PVC coated.

(3/16 - 1/4 OD insulation)

Wiring Connection: Screw Terminal; Accessible via removable

screw cap conduit housing

Standards: Designed and manufactured to sound

engineering practices in accordance with

Article 3.3 of the PED 97/23/EC

Order Information

