Product Information - EN

FOOD

Digital Pressure Gauge & Switch

Introduction

The Anderson-Negele Digital Pressure Gauge platform is designed specifically for monitoring critical pressure applications in the Food, Beverage, and Dairy Industries. The product line was developed to address customer requirements for improved performance, safety, and readability of pressure indicators. The Anderson-Negele Digital Pressure Gauge provides a battery-powered, local display of pressure that is 6 times more accurate than its mechanical counter-part. Additionally, this product has 3 times the over-range capacity and 5-10 times the resolution of traditional mechanical pressure indicators. The switch version includes 2 fully adjustable switches with low-voltage relay outputs for simple control and/or alarming applications.

The Anderson-Negele Digital Pressure Gauge offers improved reliability over traditional gauges because it does not utilize mechanical actuation. Several other features have been incorporated that customers will find beneficial including a simple, tamper-resistant user interface for easy calibration and programming. The units are programmable for engineering units and all compound units boast autoscaling to the appropriate units. There is also a "min/max" data capture feature that facilitates process and equipment troubleshooting. The Digital Pressure Gauge is powered by two "AA" batteries and will operate up to a year before the "low battery" indicator comes on. The switch version operates continuously on DC loop power with battery back up possible to support off sight programming.

Like all Anderson-Negele products, these instruments are designed to meet the most stringent requirements of the sanitary fluid process industries. They are constructed entirely of welded stainless steel, not simply industrial or test gauges with sanitary seals added. They are designed to be cleaned and steamed in place (CIP/SIP) and meet the current 3A standards. All wettable parts are 316 "L" stainless steel, and both the gauge and switch version carry a NEMA 4X rating to withstand wash-down.

The Anderson-Negele Digital Pressure Gauge is another revolutionary design from the company that specializes in sanitary instrumentation products that solve customer problems.

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

- Highest accuracy and best overrange of any sanitary gauge
- Largest digital display available in a process gauge
- User programmable via simple operator interface
- Standard Min/Max Pressure data storage feature
- · Optional Alarm/Control relays
- · 3-A compliant; Third party verified
- · 2-Year Warranty
- Rated Nema 4X for Wash-down



Specifications (Apply to Gauge and Switch unless noted)

PERFORMANCE

Repeatability:

Accuracy: ±0.2% of transducer URL

(30, 100, 200, 300, 500 psi) ±0.5% of transducer URL (5 psi) Complies with ASME B40.7-1998 ±0.06% of transducer URL

(30, 100, 200, 300, 500 psi) ±0.2% of transducer URL (5 psi)

Temperature stability: ±0.10 psi/ 10°F change in process or

ambient

Over-range Capacity: 2X URL

OPERATIONAL

Process Temp Limits: 25° to 260°F (-4° to 127°C) continuous 40° to 120°F (4° to 49°C)

Ambient Temp Limits:

Engineering Units: Programmable by user, see matrix

for selections.

Full Vacuum to selected positive pressure. Compound ranges: If set to "HG, display reads in "HG when in

the vacuum range and PSIG when there is

positive pressure.

Captured and stored in non-volatile Min / Max Pressure:

memory, may be cleared via tamper-

resistant toggle.

ELECTRICAL

Digital Gauge - 2 "AA" replaceable batteries Power: up to one-year expected life with industrial

grade batteries Digital Gauge with Switch -

9-30 Volts DC loop power

Relay Outputs

(Switch Only): Two (2) independent, adjustable setpoint

relays: Contact rating 1 amp at 24 volts DC,

SPST; Contacts open with no power to unit

(failsafe) each programmable to close above

and below setpoint.

MECHANICAL

Display: LCD, with 0.9" height Wetted Material:

316 "L" Stainless Steel, welded and polished to max Ra = 25 microinches,

Hastelloy C22 optional

Housing: 304 Stainless Steel, welded

Lens: Polysulphone

100% mineral oil, Meets FDA requirements Actuating Fill:

(21CFR, 172.828 and 178.3620(a))

APPROVALS AND DOCUMENTATION

Authorized to display the 3-A Symbol, Third Sanitary:

Party Verified

PED: Complies with the Pressure Equipment

Directive relative to Sound Engineering

Practices

Electrical: Tested to IEC 61326 Standard for Emissions

and Immunity in Industrial locations

5.8

Meets or exceeds requirements for NEMA 4X **Enclosure:**

OPTIONAL INTERFACE MODULE

90 to 260 VAC, 50/60 Hz, 10 V max. Operating Voltage:

AC Dip and Surge

Protection: 60 to 375 VAC for 5 seconds max.

Operating Current: 1/8 amp, 115-230 VAC

Relay Contact Rating: 6 amp, 250 VAC inductive/resistive and

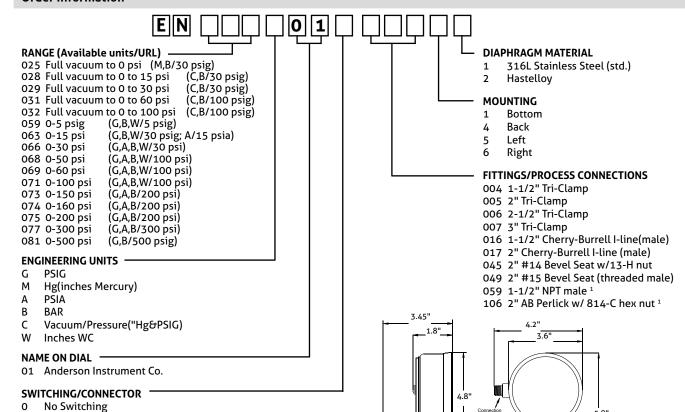
4 amp, 30 VDC max.

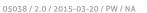
Power Loss Hold Up Time:

40 milliseconds at full load

and 115 VAC min.

Order Information





2 SPST Relays

