# 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 auto-scaling 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

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#### Specifications (Apply to Gauge and Switch unless noted) PERFORMANCE SPST; Contacts open with no power to unit Accuracy: ±0.2% of transducer URL (failsafe) each programmable to close above (30, 100, 200, 300, 500 psi) and below setpoint. ±0.5% of transducer URL (5 psi) MECHANICAL LCD, with 0.9" height 316 "L" Stainless Steel, welded and Display: Complies with ASME B40.7-1998 Repeatability: ±0.06% of transducer URL Wetted Material: (30, 100, 200, 300, 500 psi) polished to max Ra = 25 microinches, ±0.2% of transducer URL (5 psi) . Hastelloy C22 optional Housing: Temperature stability: ±0.10 psi/ 10°F change in process or 304 Stainless Steel, welded ambient Lens: Polysulphone Over-range Capacity: 2X URL 100% mineral oil, Meets FDA requirements Actuating Fill: (21CFR, 172.828 and 178.3620(a)) **OPERATIONAL** 25° to 260°F (-4° to 127°C) continuous 40° to 120°F (4° to 49 °C) Process Temp Limits: **APPROVALS AND DOCUMENTATION** Ambient Temp Limits: Authorized to display the 3-A Symbol, Third Sanitary: Programmable by user, see matrix Party Verified Engineering Units: for selections. PED: Complies with the Pressure Equipment Full Vacuum to selected positive pressure. If set to "HG, display reads in "HG when in Compound ranges: Directive relative to Sound Engineering Practices the vacuum range and PSIG when there is Electrical: Tested to IEC 61326 Standard for Emissions positive pressure. Captured and stored in non-volatile and Immunity in Industrial locations Min / Max Pressure: Enclosure: Meets or exceeds requirements for NEMA 4X memory, may be cleared via tamper-**OPTIONAL INTERFACE MODULE** resistant toggle. **Operating Voltage:** 90 to 260 VAC, 50/60 Hz, 10 V max. **ELECTRICAL** AC Dip and Surge Digital Gauge - 2 "AA" replaceable batteries 60 to 375 VAC for 5 seconds max. Power: Protection: up to one-year expected life with industrial **Operating Current:** 1/8 amp, 115-230 VAC grade batteries Digital Gauge with Switch -**Relay Contact Rating:** 6 amp, 250 VAC inductive/resistive and 9-30 Volts DC loop power 4 amp, 30 VDC max. **Relay Outputs** Power Loss Hold Up Two (2) independent, adjustable setpoint 40 milliseconds at full load (Switch Only): Time: relays: Contact rating 1 amp at 24 volts DC, and 115 VAC min. **Order Information** |E||N| 01 RANGE (Available units/URL) **DIAPHRAGM MATERIAL** 025 Full vacuum to 0 psi (M,B/30 psig) 316L Stainless Steel (std.) 1 028 Full vacuum to 0 to 15 psi (C,B/30 psig) 2 Hastelloy (C,B/30 psig) 029 Full vacuum to 0 to 30 psi 031 Full vacuum to 0 to 60 psi (C,B/100 psig) MOUNTING 032 Full vacuum to 0 to 100 psi (C,B/100 psig) 1 Bottom 059 0-5 psig (G,B,W/5 psig) 4 Back (G,B,W/30 psig; A/15 psia) 063 0-15 psi 5 Left 066 0-30 psi (G,A,B,W/30 psi) 6 Right 068 0-50 psi (G,A,B,W/100 psi) 069 0-60 psi (G,A,B,W/100 psi) FITTINGS/PROCESS CONNECTIONS 071 0-100 psi (G,A,B,W/100 psi) 004 1-1/2" Tri-Clamp 073 0-150 psi (G,A,B/200 psi) 005 2" Tri-Clamp 074 0-160 psi (G,A,B/200 psi) 006 2-1/2" Tri-Clamp 075 0-200 psi (G,A,B/200 psi) 077 0-300 psi 007 3" Tri-Clamp (G,A,B/300 psi) 016 1-1/2" Cherry-Burrell I-line(male) 081 0-500 psi (G,B/500 psig) 017 2" Cherry-Burrell I-line (male) **ENGINEERING UNITS** 045 2" #14 Bevel Seat w/13-H nut G PSIG 049 2" #15 Bevel Seat (threaded male) Hg(inches Mercury) м 059 1-1/2" NPT male 1 Α PSIA В BAR 3.45" Vacuum/Pressure("Hg&PSIG) 4.2" С 3.6 W Inches WC NAME ON DIAL 01 Anderson Instrument Co. SWITCHING/CONNECTOR 4.8 No Switching 0 5.8' 2 SPST Relays 1 05038/2.1/2024-07-26/PW/NA

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