



**FLOW
LEVEL
PRESSURE
ANALYTICAL
TEMPERATURE
INSTRUMENTATION
PASTEURIZATION CONTROLS**

Digital Pressure Gauge & Switch

- **Highest accuracy and best over-range 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, Third Party Verified**
- **2-Year Warranty**
- **Rated Nema 4X for Wash-down**

The Anderson 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 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 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 trouble-

shooting. The Digital Pressure Gauge is powered by two "AA" batteries and will operate for at least a year before the "low battery" indicator comes on. The switch version operates on DC loop power with battery back-up.

Like all Anderson 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 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.andinst.com, or contact your local Authorized Anderson Distributor.



Complete Product Ordering Matrix



RANGE (Available units/URL)

- 025 Full vacuum to 0 psi (M,B/30 psig)
- 028 Full vacuum to 0 to 15 psi (C,B/30 psig)
- 029 Full vacuum to 0 to 30 psi (C,B/30 psig)
- 031 Full vacuum to 0 to 60 psi (C,B/100 psig)
- 032 Full vacuum to 0 to 100 psi (C,B/100 psig)
- 059 0-5 psi (G,B/5 psig)
- 063 0-15 psi (G,B/30 psig; A/15 psia)
- 066 0-30 psi (G,A,B/30 psi)
- 068 0-50 psi (G,A,B/100 psi)
- 069 0-60 psi (G,A,B/100 psi)
- 071 0-100 psi (G,A,B/100 psi)
- 073 0-150 psi (G,A,B/200 psi)
- 074 0-160 psi (G,A,B/200 psi)
- 075 0-200 psi (G,A,B/200 psi)
- 077 0-300 psi (G,A,B/300 psi)
- 081 0-500 psi (G,B/500 psig)

ENGINEERING UNITS

- G PSIG
- M Hg(inches Mercury)
- A PSIA
- B BAR
- C Vacuum/Pressure("Hg&PSIG)

NAME ON DIAL

- 01 Anderson Instrument Co.

DIAPHRAGM MATERIAL

- 1 316L Stainless Steel (std.)
- 2 Hastelloy

MOUNTING

- 1 Bottom
- 5 Left
- 6 Right

FITTINGS/PROCESS CONNECTIONS

- 004 1-1/2" Tri-Clamp
- 005 2" Tri-Clamp
- 006 2-1/2" Tri-Clamp
- 007 3" Tri-Clamp
- 016 1-1/2" Cherry-Burrell I-line(male)*
- 017 2" Cherry-Burrell I-line (male)*
- 045 2" #14 Bevel Seat w/13-H nut
- 049 2" #15 Bevel Seat (threaded male)
- 059 1-1/2" NPT male*
- 106 2" AB Perlick w/ 814-C hex nut

SWITCHING/CONNECTOR

- 0 No Switching
- 1 2 SPST Relays

* Allow an extra 10 days for delivery

Specifications (Apply to Gauge and Switch unless noted):

Performance

- Accuracy: ±0.2% of URL (upper range limit)
Complies with ASME B40.7-1998
- Repeatability: ±0.06% URL
- Hysteresis: ±0.07% URL
- Linearity: ±0.07% URL
- Temperature stability: ±0.16% / 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
- Ambient Temp Limits: 40° to 120°F (4° to 49 °C)
- Engineering Units: Programmable by user, see matrix for selections.
- Compound ranges: Full Vacuum to selected positive pressure. If set to "HG, display reads in "HG when in the vacuum range and PSIG when there is positive pressure.
- Min / Max Pressure: Captured and stored in non-volatile memory, may be cleared via tamper-resistant toggle.

Electrical

- Power: 2 "AA" replaceable batteries with one-year minimum expected life with industrial grade batteries (Digital Gauge); 9-30 Volts DC loop power (Optional Switch)
- 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 or below setpoint.

Mechanical

- Display: LCD, with 0.9" height
- Wetted Material: 316 "L" Stainless Steel, welded and polished to max R_a = 25 microinches (better than 240 grit)
- Housing: 304 Stainless Steel, welded
- Lens: Polysulphone
- Actuating Fill: 100% mineral oil, Meets FDA requirements (21CFR, 172.828 and 178.3620(a))

Approvals and Documentation

- Sanitary: Authorized to display the 3-A Symbol, Third 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
- Enclosure: Meets or exceeds requirements for NEMA 4X
- Hazardous Locations: UL for Intrinsically Safe requirements pending