



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 compliant; Third party verified in accordance with standard 74-03**
- **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.

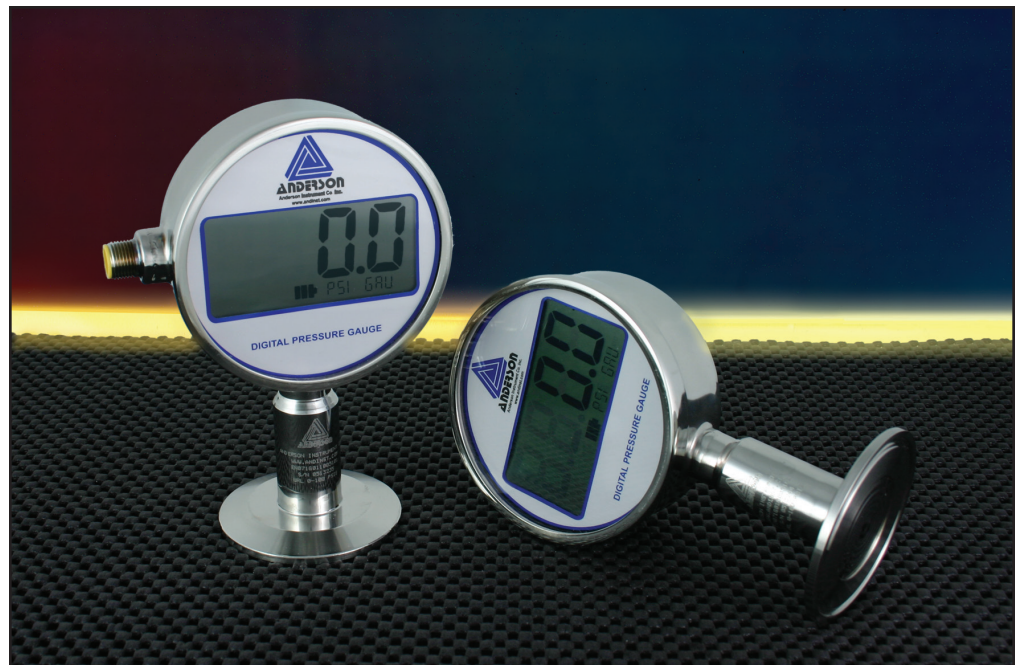
The Anderson Digital Pressure Gauge offers improved reliability over traditional gauges because it does not utilize mechanical actuation. Several other features have been incorporated that customers will find beneficial including a simple, tamper-resistant user interface for easy calibration and programming. 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 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 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](http://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 psig	(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.
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## 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/ Gauges with these fittings are non-cancellable/non-returnable

## 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:	Digital Gauge - 2 "AA" replaceable batteries 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 R <sub>a</sub> = 25 microinches, Hastelloy C22 optional
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, standard 74-03
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

### Optional Interface Module

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