

Product Information - EP

LIFE SCIENCES

"EP" Digital Pressure Gauge & Switch

Introduction

The Anderson-Negele Digital Pressure Gauge platform is designed specifically for monitoring critical pressures in sanitary Life Sciences applications. The product line was developed to address several trends relative to performance, safety, and readability criteria of our core customers. When compared to mechanical gauges these electronic units provide much better accuracy, resolution, and over-range capability, and are backed by a 2 year warranty! The switch version provides all this, PLUS 2 fully adjustable switches with low-voltage relay outputs for simple control and/or alarming.

With the elimination of mechanical actuation comes improved reliability. 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's also a "min/max" capture feature that can be used for troubleshooting your process and equipment. Powered by two "AA" batteries, the Digital Pressure Gauge will operate for 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-site programming.

Like all Anderson-Negele "Life Sciences Series" products, these instruments are designed to meet the most stringent requirements of the industry. 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 ASME BPE standards. All wettable parts are 316 "L" stainless steel, electropolished to an Ra of 8 Microinches (0.2 microns). Each is provided with a complete documentation package including material, conformance, and calibration certifications as standard.

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.

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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 capture feature
- · Optional Alarm/Control relays
- · 3-A compliant; Third party verified
- · 2-Year Warranty



Specifications

PERFORMANCE

±0.2% of transducer URL Accuracy:

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

±0.06% of transducer URL Repeatability:

(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: -4° to 127°C (25° to 260°F) continuous

4° to 49 °C (40° to 120°F) Ambient Temp Limits:

Programmable by user, see matrix for **Engineering Units:**

selections.

100% mineral oil. Meets FDA requirements Actuating Fill:

(21 CFR, 172.878 and 178.3620(a))

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

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 (switching 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

LCD, with 0.9" height Display: Wetted Material:

316 "L" Stainless Steel, welded and polished to max Ra = 8 microinches

(0.2 microns) - Hastelloy C22 optional

Housing: 304 Stainless Steel, welded

Lens: Polysulphone APPROVALS AND DOCUMENTATION

Sanitary: Meet current ASME BPE-2002 standards;

3-A compliant, 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

Documents: Material, Conformance and Calibration: Certificates provided with product, also

available on-line using serial number

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

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

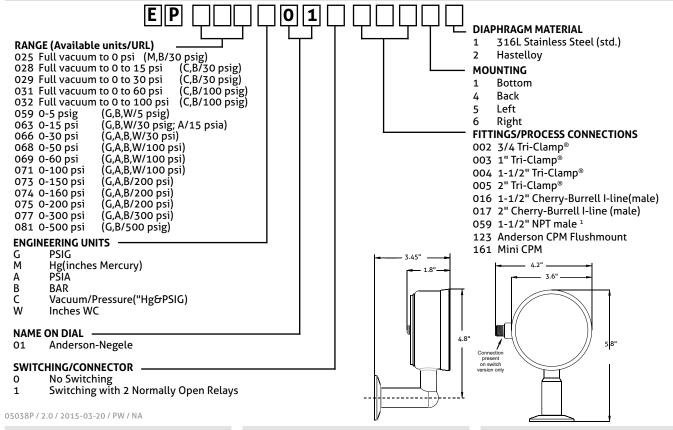
and 4 amp, 30 VDC max.

Power Loss Hold Up Time:

40 milliseconds at full load and

115 VAC min.

Order Information



ANDERSON INSTRUMENT COMPANY

156 Auriesville Road Fultonville, NY 12072 Phone 800-833-0081 Fax 518-922-8997 info@anderson-negele.com techservice@anderson-negele.com Phone 800-833-0081