“ELH Series” (Extended Life) Pressure Gauge

Introduction
Homogenizer service is a torture test for any dairy gauge. Modern homogenizers utilize multi-piston, high pressure pumps that result in a pounding that soon sends lesser gauges to the scrap pile. The ELH solves this senseless waste.

With the ELH Gauge, Anderson-Negele has combined our understanding of homogenizers and the dairy environment along with the design principles of our class leading EL gauge. The ELH is designed from the ground up to be the toughest, most reliable gauge for homogenizer applications. With over 30 years of experience building and repairing hundreds of thousands of gauges from a dozen different suppliers, we’ve identified and addressed all the key causes of premature failure. While the ELH is undoubtedly the most durable 3-1/2” homogenizer gauge available today, it is also quite innovative. It comes available with a fully potted and sealed integral transmitter that can be field calibrated for both zero and span. Configured with a broad range of sanitary homogenizer fittings, direct or panel mounting, and the optional integral transmitter, the ELH is likely to be the perfect replacement gauge for your homogenizer. And because it’s an Anderson-Negele gauge you can rest assured it meets every current sanitary standard and is being used by the tens of thousands in food, dairy, beverage, and brewing applications worldwide.

Complete specifications and ordering information are available on the reverse. For additional information please visit us on the web at www.anderson-negele.com, or contact your local Authorized Anderson-Negele Distributor.

Authorizations

Features
- Permanently filled and sealed sensing system provides class leading pulsation dampening and long life.
- Heavy duty stainless case and all welded design provide shock and vibration resistance
- Transmitter option is ideal to upgrade single port machines for data logging or remote reading
- Available with all common homogenizer fittings for either direct and panel mounting
- 3-A compliant; Third Party verified
Specifications

PERFORMANCE MECHANICAL & ELECTRICAL

Gauge Accuracy: Factory calibrated to +/- 1.5% of full scale, from 10 to 90% of pressure range
Transmitter Accuracy: +/- 0.5% of full span
Over-range capability: 15% for ranges up to 100 BAR (1.5k PSI)
10% for ranges up to 600 BAR (8.7k PSI)
1.6% per 10°F process temperature change
0.25% per 10°F ambient temperature change

Temperature Effect:
- 0.16% per 10°F process temperature change
- 0.25% per 10°F ambient temperature change

Process Temperature Limits: 25 to 300°F (-4 to 149°C)
Ambient Temperature Limits: 32 to 140°F (0 to 60°C)
CIP Temperature Limit: 300°F (149°C)
SIP Temperature Limit: 300°F (149°C)
Stability: Within specified accuracy for 6 months
Decay Rate: 1-2 seconds

CONSTRUCTION / FINISH

Diaphragm: C276 Hastelloy
Fitting: 316L stainless steel
Diaphragm and Fitting: Welded & polished. Max. Ra=25μ
Socket: Stainless steel with integral fill port
Case/Stem: Welded 304 stainless steel (polished)
Dial: Adhesive-backed printed Mylar in various scales, 90mm diameter minimum
Lens/Dial Plate: Chemical resistant polysulfone, able to withstand 325°F
Bezel: 304 stainless steel, polished, compression formed to case (non-removable)
Viewing Angle: 100 degrees minimum
Pointer: Aluminum, black anodized

OPERATIONAL

Spiral Coil, Tip, and Socket Construction: Welded connections
Internal Fill: Standard, ETR (extended Temperature range) mineral oil
Case Fill: Standard, glycerin 100% USP Food Grade
Mechanical Dampening: Optional 4-20 mA DC, 2 wire (4 mA at zero pressure & 20 mA at upper range value).
Loop Resistance: 0-700 ohms at 24 VDC
Electrical Connection: M12 5Pin quick disconnect receptacle (field wireable connector and cable available).
Recommended Cable: 22-24 AWG, foil shielded, 0.17 - 0.26” Cable Sheath OD for use with field wiring connector
Electrical Protection: Voltage spike and reverse polarity
Transmitter Zero Adjustment: +/- 10% of span (With back removed)
Pointer Re-zero Adjustment: Tamper resistant adjustment, +/- 5% of span. Non interactive with span. External adjustment located on back of case.

Order Information

RANGE
084 0-1,000 psig
085 0-1,500 psig
087 0-2,500 psig
090 0-5,000 psig
221 0-6,000 psig
093 0-10,000 psig
094 0-15,000 psig
971 0/100 BAR
974 0/160 BAR
976 0/250 BAR
979 0/400 BAR
982 0/600 BAR
984 0/1000 BAR

DIAL NAME/LOGO
01 Anderson
056 Homogenizer (less flange) 1
057 Homogenizer (7/8” flange) 1
117 APV/Rannie 2
118 Tetra Pak & Bran & Luebbe
157 Niro 2

FITTING (see doc. 1163 for fitting dim. details)
00 No Cable or QDR only
01 5’ PVC
02 10’ PVC
03 15’ PVC
21 5’ S.S.
22 10’ S.S.
23 15’ S.S.

ACCESSORIES
Molded cordset w/25’ cable 42117K0025
Molded cordset w/50’ cable 42117K0050
Molded cordset w/100’ cable 42117K0100

ARMOR/LENGTH
00 None (bottom mount)
01 5’ PVC
02 10’ PVC
03 15’ PVC
21 5’ S.S.
22 10’ S.S.
23 15’ S.S.

OUTPUT
00 No Output
01 4-20mA Output - Factory calibrated to selected range

CABLE LENGTH
00 No Cable or QDR only
R0 Quick Disconnect Receptacle(QDR) & 90°FWC
R1 QDR & Field Wireable Connector(FWC) w/25 ft Cable
R2 QDR & FWC w/50 ft Cable
R4 QDR & FWC w/100 ft Cable
R8 QDR & FWC w/200 ft Cable

11A FIXED CHARACTERS
1 Common high pressure fitting for APV and others.
2 Not 3-A compliant

All dimensions in inches

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