

"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



CSI
 417.831.1411
csidesigns.com

Specifications

PERFORMANCE MECHANICAL & ELECTRICAL		Bezel:	304 stainless steel, polished, compression formed to case (non-removable)
Gauge Accuracy:	Factory calibrated to +/- 1.5% of full scale, from 10 to 90% of pressure range	Viewing Angle:	100 degrees minimum
Transmitter Accuracy:	+/- 0.5% of full span	Pointer:	Aluminum, black anodized
Over-range capability:	25% for ranges up to 100 BAR (1.5k PSI) 15% for ranges up to 600 BAR (8.7k PSI) 10% for ranges up to 16K BAR (23k PSI)	OPERATIONAL	
Temperature Effect:	.16% per 10°F process temperature change .25% per 10°F ambient temperature change	Spiral Coil, Tip, and Socket Construction:	Welded connections
Process Temperature Limits:	25 to 300°F (-4 to 149°C)	Internal Fill:	Standard, ETR (extended Temperature range) mineral oil
Ambient Temperature Limits:	32 to 140°F (0 to 60°C)	Case Fill:	Standard, glycerin 100% USP Food Grade
CIP Temperature Limit:	300°F (149°C)	Mechanical Dampening:	Standard
SIP Temperature Limit:	300°F (149°C)	Output:	Optional 4-20 mA DC, 2 wire (4 mA at zero pressure & 20 mA at upper range value).
Stability:	Within specified accuracy for 6 months	Loop Resistance:	0-700 ohms at 24 VDC
Decay Rate:	1- 2 seconds	Electrical Connection:	M12 5Pin quick disconnect receptacle (field wireable connector and cable available).
CONSTRUCTION / FINISH		Recommended Cable:	22-24 AWG, foil shielded, 0.17 - 0.26" Cable Sheath OD for use with field wiring connector
Diaphragm:	C276 Hastelloy	Electrical Protection:	Voltage spike and reverse polarity
Fitting:	316L stainless steel	Operating voltage:	10-40 VDC (Absolute), 24 VDC Nominal regulated or unregulated.
Diaphragm and Fitting:	Welded & polished. Max. Ra=25µ	Transmitter Zero Adjustment:	+/- 10% of span (With back removed)
Spiral Coil:	Stainless steel	Pointer Re-zero Adjustment:	
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		

Order Information

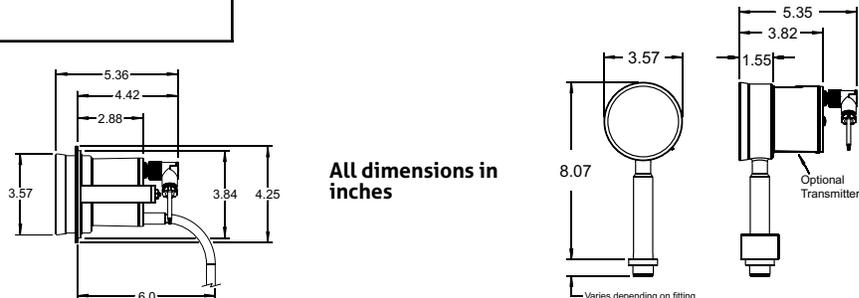


RANGE		CABLE LENGTH
084 0-1,000 psig		00 No Cable or QDR only
085 0-1,500 psig		R0 Quick Disconnect
087 0-2,500 psig		Receptacle(QDR) & 90°FWC
090 0-5,000 psig		R1 QDR & Field Wireable
221 0-6,000 psig		Connector(FWC) w/25 ft Cable
093 0-10,000 psig		R2 QDR & FWC w/50 ft Cable
094 0-15,000 psig		R4 QDR & FWC w/100 ft Cable
971 0/100 BAR	BAR ranges are provided with dual range BAR & PSI markings	R8 QDR & FWC w/200 ft Cable
974 0/160 BAR		
976 0/250 BAR		
979 0/400 BAR		
982 0/600 BAR		
984 0/1000 BAR		
DIAL NAME/LOGO		OUTPUT
01 Anderson		0 No Output
FITTING (see doc. 1163 for fitting dim. details)		1 4-20mA Output - Factory calibrated to selected range
056 Homogenizer (less flange) ¹		ARMOR/LENGTH
057 Homogenizer (7/8" flange) ¹		00 None (bottom mount)
058 Homogenizer (1-1/8" flange) ¹		01 5' PVC
117 APV/Rannie ²		02 10' PVC
118 Tetra Pak & Bran & Luebbe		03 15' PVC
157 Niro ²		21 5' S.S.
		22 10' S.S.
		23 15' S.S.
MOUNT		
1 Bottom		
2 Panel/Remote		

111A FIXED CHARACTERS
¹ Common high pressure fitting for APV and others.
² Not 3-A compliant

ACCESSORIES

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



All dimensions in inches