General Purpose Pressure Transmitter

Econoline

ANALOG PRESSURE TRANSMITTER FOR MOST APPLICATIONS

The Econoline by Keller America is a general purpose pressure transmitter intended for almost any application involving aggressive media and where small size, weight, and low cost are required.

This proven design utilizes a media isolated, piezoresistive silicon sensor, a design known to be highly reliable in thousands of applications around the globe. Combined with state-of-the-art signal conditioning electronics, the result is a robust transmitter that will provide trouble free service and accurate results.

For more information on the Econoline, or any other Keller product, please contact Keller America, or view the entire Keller catalog at http://www.kelleramerica.com/datasheets.html.

FEATURES

316L Stainless Steel construction for compatibility with aggressive media

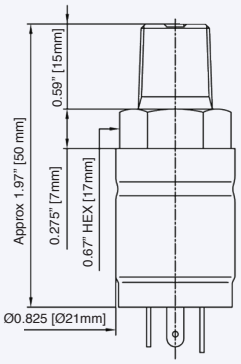
Full scale ranges from 5 to 10,000 PSI

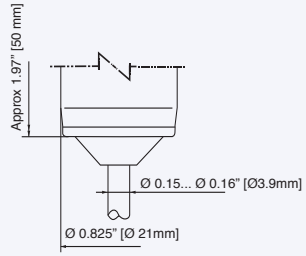
2-year warranty covers defects in materials and workmanship.

Industry standard outputs simplify interface to controls, data collection, and telemetry systems.

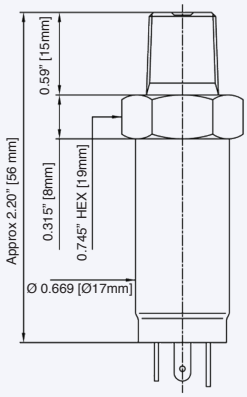
Built in the U.S.A. ARRA Section 1605 Compliant.

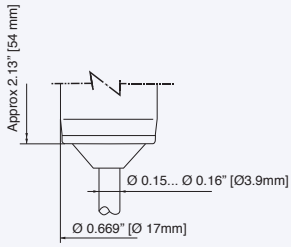
5 - 50 PSI



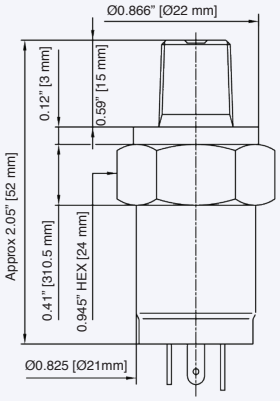


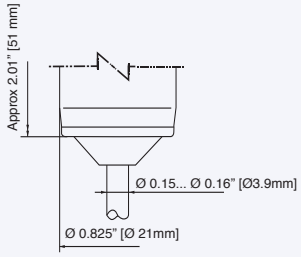
100 - 3000 PSI





5,000 - 10,000 PSI





Wiring Information		
	mA	VDC
Pin 1 / White	OUT/ GND	GND
Pin 2 / Red	N/A	+Out
Pin 3 / Black	+Vcc	+VCC

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Subject to alterations
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Pressure Ranges[1]

Relative	0...5, 15, 50, 100, 300 PSIG
Absolute	0...15, 50, 100 PSIA
Sealed	0...300, 500, 1000, 3000, 5000, & 10000 PSIS
Proof Pressure	3X for 5 PSI to 1.1X for 10k psi

1. PSIG = Gage; Zero-point referenced to local atmospheric pressure.
PSIA = Absolute; Zero-point set at hard vacuum.
PSIS = Sealed Gage; Zero-point set at 1 bar absolute (14.504 PSIA).

Accuracy[2]

Static	±1% FS Standard
	±0.5% FS Optional
Thermal Effects	±0.1% FS / °C Max.

2. Static accuracy includes the combined effects of non-linearity, hysteresis, and non-repeatability at room temperature (25°C).

Output

Current	4...20mA
Voltage	0.5...4.5 VDC non-ratiometric

Connection

Process	1/4”-18NPT Male
Electrical	std. 10 ft. PVC Cable
	opt. mPm393[3]

3. Mating connector supplied at no extra cost.

Electrical[4]

Supply	8...32 VDC
Load Resistance (mA)	<(Supply-8V)/0.022A
Load Resistance (VDC)	>4k ohm

4. Nominal values may be higher depending upon cable length. Cable resistance (~70Ω / 1000ft) adds to the supply requirement. In order to insure proper system operation, calculate the minimum required supply voltage (at the source) as follows:

MINIMUM SUPPLY VOLTAGE (4-20mA) = 8 + 0.022 (CABLE LENGTH x 0.07) VDC
MINIMUM SUPPLY VOLTAGE (VDC) = 8 + 0.005 (CABLE LENGTH x 0.07) VDC

Certifications

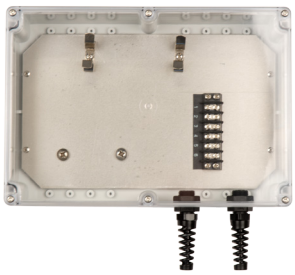
CE	EN50081-1, EN50082-2
Shock	20g (11ms) half-sine, any axis
Vibration	20g (5-2KHz, max. amp ±3mm per IEC68-2-6)

Environmental

Protection Rating	
Cable	IP65
mPm393	IP65
Operating Temp.	-20...80°C
Compensated Temp.	0...50°C
Wetted Materials	316 L Stainless Steel
	Fluorocarbon

Optional Accessories

Process Meter



Termination Enclosure

Signal Line Surge Protector

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