



General Purpose Pressure Transmitters

Econoline™

316L SS construction

- ▶ Insures compatibility with most aggressive media

Full scale ranges from 15 to 10,000 PSI

- ▶ A range to fit every application

Choice of mA or VDC outputs

- ▶ Easily integrates with existing equipment

State-of-the-art sensor and signal conditioning

- ▶ Best price-performance available



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.

Please consult the comparison chart below to determine if the Econoline series is the best solution for your specific application. Datasheets for Valueline, Preciseline, and other products are available upon request or by visiting our website, www.kelleramerica.com.

Product Comparison	Econoline™	Valueline™	Preciseline™
Accuracy	Static (25°C): ±1 or ±0.5% FS TC-Zero: ±0.03% FS / °C TC-Sens: ±0.03% / °C	±0.25 or ±0.1% FS T.E.B. ₁	±0.2 or ±0.1% FS T.E.B. ₁
Custom Pressure Ranges	No	Yes	Yes
Lowest Pressure Range	15 PSI	2 PSI	2 PSI
Highest Pressure Range	10,000 PSI	15,000 PSI	15,000 PSI
Field Rangeability	No	No	Yes
Analog Output	0.5 – 4.5 VDC ₂ 4 – 20 mA	0 – 5 VDC, 0 – 10 VDC 4 – 20 mA	0 – 5 VDC, 0 – 10 VDC 4 – 20 mA
Digital Output	N/A	N/A	RS485
Wetted Materials	316L SS, Fluorocarbon	316L SS, Fluorocarbon	316L SS, Fluorocarbon
Process Connection	¼" NPT male	¼" NPT male	¼" NPT male
Electrical Termination	Cable, mini-DIN	Cable, DIN43650, MIL-C-26482	Cable, DIN43650, MIL-C-26482
Relative cost	Lowest	Midrange	Highest

*see reverse for note 1 & 2.

MADE IN U.S.A.

Keller America, Inc. is the US home for Keller AG für Druckmesstechnik of Winterthur Switzerland. With over thirty years since its inception, the firm, still under the daily direction of its founder Hans Keller, continues to lead the industry in the development of media-isolated piezoresistive pressure sensors and advanced error correction techniques. At Keller, old-world craftsmanship combines with the latest in microelectronics to produce the best price-performance value in pressure measurement available anywhere in the world.

The products described herein are assembled and tested in the US using the same components and advanced manufacturing techniques in use at the Swiss factory, insuring the uncompromised quality and rapid delivery that our customers have every right to expect.

KELLER AMERICA, INC.

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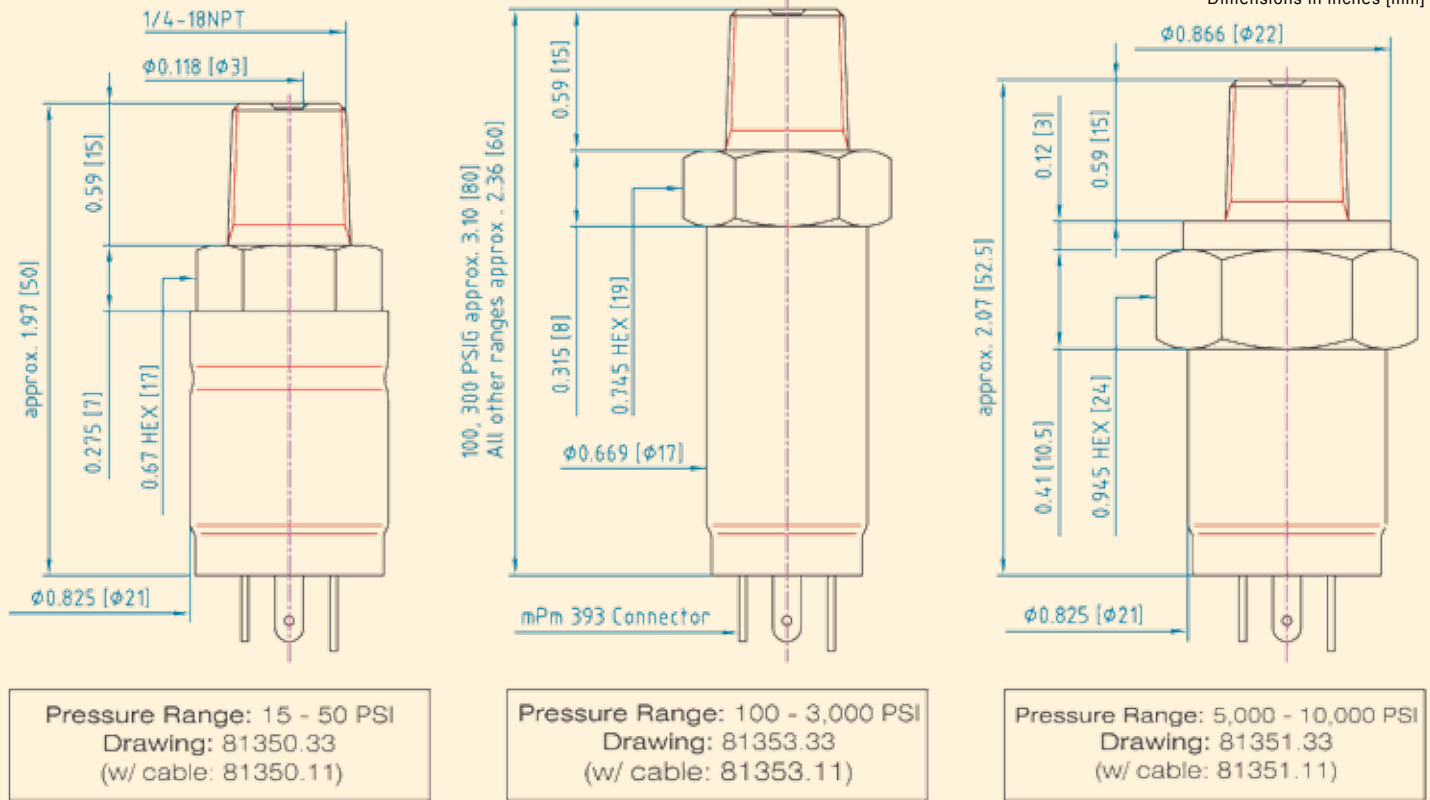


Specifications

Pressure Range	<i>Gage</i>	0 – 15, 50, 100, 300 PSI	Static accuracy	Standard: $\pm 1\%$ FS max. Optional: $\pm 0.5\%$ FS max.
	<i>Absolute</i>	0 – 15, 50, 100 PSI	Operating temp. range	-20 – 80 °C
	<i>Sealed Gage</i>	0 – 300, 500, 1,000, 3,000, 5,000 & 10,000 PSI	Compensated temp. range	0 – 50 °C
Proof pressure	Varies by range, from 3X for 15 PSI range to 1.1X for 10,000 PSI range		Thermal error	$\pm 0.1\%$ FS / °C max
Supply	8 – 28 VDC, 5 VDC ₂		Materials of construction	316L SS, Fluorocarbon
Output	<i>3 wire</i>	0.5 – 4.5 VDC ₂	Environmental protection	IP 65
	<i>2 wire</i>	4 – 20 mA	CE-conformity	EN 50081-1, EN 50082-2
Process connection	1/4" NPT male		Shock	20g (11 ms)
Electrical connection	PVC-jacketed, shielded cable, 5ft std. length or mini-DIN with mate		Vibration tolerance	20g (5 – 2K Hz, max. amp. ± 3 mm) per IEC 68-2-6

Dimensions

Dimensions in inches [mm]



*See note 3

Wiring Configuration

Configuration	Pin 1 / White	Pin 2 / Red	Pin 3 / Black
<i>2 Wire</i>	OUT / GND	N / A	+Vcc
<i>3 Wire</i>	GND	+OUT	+Vcc

*See note 4

Notes

- TEB: Total Error Band; Includes the combined effects of non-linearity, hysteresis and non-repeatability as well as thermal dependencies, over the compensated temperature range.
- 5VDC supply with 0.5-4.5VDC **ratio-metric** output only.
- Dimensions & specifications are subject to change without notice. For the most accurate and up to date information on all products please visit our website.
- The drain / shield is connected to the transmitter housing. For best protection against galvanic corrosion, do not ground.

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