



DESIGNED FOR HARSH CONDITIONS

Viatran's Model LP247 uses bonded foil sensing technology to offer a rugged but inexpensive solution in hard-to-access areas where power is a premium.

INSPIRED BY DIVERSE NEEDS

Hydraulic systems in test and control applications generate severe "spikes" that overpressure many sensors. To combat spikes, Viatran employs a bonded foil strain gage on a hardened stainless steel diaphragm. This higher mass diaphragm withstands short-term overpressure conditions inherent in hydraulic applications. For measuring low pressures (5 to 200 PSI), Viatran uses a corrosion resistant ceramic diaphragm sensor.

EASILY ADAPTABLE

The "47" series utilizes several features to fit the widest possible applications. The standard DIN 43650 connector is an industrial standard with excellent weather resistance.*

The "47" can be fitted with a 6-pin bayonet or a direct coupled cable. The "47" has no oil fill or isolation diaphragms and has a 1/4" NPT or SAE female pressure port. A standard zero adjustment control makes easier setup.

If your application requires a large quantity of rugged, low power pressure transmitters, Viatran's LP247 is the answer.

The Model LP247 has been designed specifically for applications where only solar power or battery power are available. In remote or hard to access applications, this unit gives a low-cost, rugged solution. This is just one part of the family of Low Power solutions from Viatran.

FEATURES

- ▶ Low price
- ▶ Adjustable zero
- ▶ Resistant to pressure spikes
- ▶ Cost effective DIN connector
- ▶ Welded stainless steel construction

TYPICAL APPLICATIONS

- ▶ Hydraulic systems
- ▶ Injection molding
- ▶ Die casting
- ▶ Off road vehicles
- ▶ Compressors and pumps
- ▶ High volume usage

Approval Options Available



For product availability, or to order please call 1-800-688-0030, ext 506.

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An ISO 9001:2001 Certified Company

SPECIFICATIONS

PERFORMANCE

Full Scale Pressure Range	(FSPR) 0-5, 0-10, 0-15, 30, 50, 75, 100, 200, PSIG, PSIA. 0-300, 400, 500, 750, 1K, 1500, 2K, 3K, 4K, 5K, 7500, 10K, 15K, 20K, PSIG
Non-Linearity (Best Fit Straight Line)	$\leq \pm 0.5\%$ FSO
Hysteresis & Repeatability	$< 0.25\%$ FSO
Full Scale Output (FSO)	
Model 247	4 VDC $\pm 2\%$ at 70° F
Resolution	Infinite
Long Term Stability	$\leq \pm 0.5\%$ FSO per 6 months
Compensated Temperature Range	70° F to 170° F
Maximum Operating Temperature	200° F
Minimum Operating Temperature	-20° F
Non-Operating Temperature Range	-60° F to +250° F
Thermal Effect on Zero	$\leq \pm 3\%$ FSO per 100° F Typical
Thermal Effect on Span	$\leq \pm 2\%$ FSO per 100° F Typical

ELECTRICAL

Supply Voltage	5 to 20 VDC
Power Supply Regulation	
Model LP247	$\leq \pm 0.05\%$ FSO per Volt
Current conversion	$\leq 1.75\text{mA}$
Output Signal	
Model LP247	0 to 4 VDC
Circuit Protection	Reverse polarity protected. Varistor protected across input leads for surges above 40 VDC and currents to 8 A peak with a pulse width of 10 x 1000 μSec
Insulation Resistance	1000 MegOhms at 50 VDC
Response Time	$\leq 5\text{ mSec}$ for 90% change in output
Electrical Connections	DIN plug 43650 + Power + Signal Common
Ground Spade	Case ground

Mechanical

Pressure Connections	1/4" NPT Female
Proof Pressure	1.5 times FSPR or 25K PSI, whichever is less
Burst Pressure	5 times FSPR or 30K PSI, whichever is less
Pressure Cavity Volume	0.07 cubic inches
Mounting	May be supported by process piping
Materials of Construction	
Wetted Parts	
0-15 thru 200 PSI	316 stainless steel, Buna-N O-Ring, Alumina ceramic
0-300 PSI and above	15-5PH stainless steel
Housing	304 stainless steel
Weight	10 oz
Identification	Laser etched onto body

Options

Codes	
DH	Special range
DX	Modified Output
Accessories	
	Digital indicator
	Mating electrical assembly
	Mating electrical connector
	Protective cover

Notes: Vented gage units should only be installed in environments that allow the breather to remain dry and free from contamination. Application of some available options may affect standard performance. Consult your Viatran representative for details.

NOTE:
ALL DIMENSIONS ARE NOMINAL, IN INCHES
AND FOR REFERENCE PURPOSES ONLY

