

### PRESSURE TRANSMITTER

## Models 245 / 345 DIGICOMP



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#### **FEATURES**

- High accuracy
- Small size and weight
- Many options available
- All stainless steel construction
- 3 to 5000 PSI (0.2 to 345 bar)
- Isolated Shunt calibration circuit
- Zero and Span adjustments

#### TYPICAL APPLICATIONS

- Engine test stand
- Turbine-rocket
- Diesel-internal combustion
- Emission testing
- Production test stand
- Transmission testing
- Break Strength testing

### STATE-OF-THE-ART CIRCUITRY DELIVERS HIGH ACCURACY

Viatran's 245 and 345 are our most accurate pressure transducers for industrial test and research applications. The 245/345 measures from 3 PSI to 5000 PSI (0.2 to 345 bar) with standard linearity of  $\leq \pm 0.06\%$  FSO.

To achieve high static accuracy and low temperature errors, Viatran uses ASIC technology with integrated EEPROM to store corrective coefficients. Digital connection allows Viatran to offer optional temperature compensation in the range of -40°F to 170°F

(-40°C to 77°C) and linearize the signal down to 0.06% FSO or less without sacrificing the <2ms response time of the unit.

### COMPACT SIZE FOR LIMITED SPACE APPLICATIONS

The compact size of the 245/345 allows more transmitters to fit into a smaller space so that more pressure points can be measured. The use of surface mount technology (SMT) allows this complex circuitry to be incorporated into a small package. Also included is an isolated internal calibration signal circuit. This feature allows calibration of the transmitter without an external pressure source and minimizes the need to send the transmitter to a metrology lab.

#### CIRCUIT PROTECTION

To maintain excellent performance and ensure immunity in electrically noisy environments, both mechanical and electrical designs are optimized for EMI handling. Sample devices were extensively tested in a simulated environment allowing for the development of a more reliable and robust product.

For more information, contact Viatran.

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Viatran

# PRESSURE TRANSMITTER Models 245 / 345 DIGICOMP

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.±5% FSO min
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.1050 Ohms max at 30 Vdc
.100K Ohms min
.4 to 20 mA
.0 - 5 Vdc standard (see options)
.≤±0.01% FSO per volt change over the supply voltage range
.8 to 30 Vdc
(12 to 30 Vdc for 10 Vdc output option)
.8 to 30 Vdc at 3.5 mA nominal, 5 mA max
.≤±1.0% FS0 per 100°F
.≤±1.0% FS0 per 100°F
40°F to 250°F (-40°C to 121°C)
-40°F to 185°F (-40°C to 85°C) - ambient
40°F to 250°F (-40°C to 121°C) - process
.32°Fto170°F (0° to 77° C)
.≤ $\pm$ 0.3% FSO per 6 months
.Infinite
.16 mA at 70°F (21°C) ≤±0.10% FS0
.5 Vdc at 70°F (21°C) ≤±0.10% FSO standard
.≤±0.06% FS0 each
.≤±0.06% FS0
0-15 PSIV (0-1.03 BarV)
0-15 thru 0-5000 PSIA (0-1.0 thru 0-345 bar)



### Models 245 / 345 DIGICOMP

MECHANICAL	Pressure Connection Proof Pressure	Pressure Connection	1/4" - 18 NPT female 3 times range or 1,200 PSI (80 bar) max
	Proof Pressure		3 times range or 9,000 PSI (620 bar) max
	Burst Pressure		5 times range or 2,400 PSI (170 bar) max
	Durst i ressure		5 times range or 10,000 PSI (700 bar) max
	Pressure Cavity Volume	≤500 PSI (35 bar)	
	Troobard darry rolaine	>500 PSI (35 bar)	
		Mounting	May be supported by process piping
		Identification	
OPTIONS		BF	(K)PTIH-10-6P
		BG	
		BL	
		BN	
		BQ	
		BR	
		ZU	
		**	Multiple pressure ports available. Consult factory
			Extended Compensated Temperature Range (Cold) -40°F to 170°F (-40°C to 77°C)
			Improved temperature compensation (≤±0.5% FSO per 100°F zero span and shift)
		DH	Special ranging
		DK	Special calibration setting
		DM	Modified full scale output
		DN	
		DQ	Cleaning for oxygen service
		EA	
		EH	Extended Compensated Temperature Range (Hot) $+70^{\circ}$ F to 185°F (21°C to 85°C)
		NH	
		PW	1/8 DIN digital indicator
		TW	GOST-R approval

Note: Application of some available options may affect standard performance. Consult your Viatran representative for details.



