



COMPACT SIZE WITH STATE-OF-THE-ART CIRCUITRY

The compact size means more transmitters fit into a small space meaning more pressure points can be measured. An internal calibration signal circuit is also included allowing calibration of the transmitter without an external pressure source. This minimizes the need to send the 245 / 345 to a metrology lab.

Surface mount technology (SMT) allows the 245 / 345 to be equipped with electronic linearization, a compensation circuit that corrects for non-linearities in the sensor.

OPTIONAL OUTPUTS, PROOF PRESSURES AND MORE

Spikes and over pressures are a problem. To combat spikes, Viatran employs a bonded foil strain gage on a hardened stainless steel diaphragm. This solution withstands overpressure conditions inherent in your toughest applications.

EASILY ADAPTABLE

Viatran has been making Pressure Transducers for the Test and Control industry for over 50 years, and we have the technical expertise and the proven track record to go along with it.

If your application requires the reliability and endurance of a rugged pressure transducer, Viatran's 245 / 345 is the answer. Keep in mind, if you need improved temperature compensation or lower pressure ranges, ask for the Viatran Digicomp 245 / 345.

OUR COMMITMENT TO QUALITY

The "X45" series design will perform and maintain on site durability in the most severe applications. To satisfy your unique application requirements, Viatran will also modify our standard products to meet your needs.

Viatran's vision is to be your fastest, easiest and most trusted solution.

Call us today to explore the solutions we have to offer.

1.800.688.0030

FEATURES

- High accuracy
- Small size and weight
- Many options available
- All stainless steel construction
- 7.5K to 100K PSI (600 to 6900 bar)
- Shunt calibration circuit

TYPICAL APPLICATIONS

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



Your local applications specialist:

Models 245 / 345 High Range

PERFORMANCE

Full Scale Pressure Range	7500, 10K, 15K, 20K, 25K, 30K, 40K, 50K, 60K, 75K, 100K PSIA, PSIG (500, 700, 1000, 1400, 1700, 2000, 2700, 3500, 4000, 5000, 6900 barA, barG)
Nonlinearity (Best Fit Straight Line)	≤±0.1% FSO (≤±0.25% FSO for 75K-100K PSI)
Hysteresis	≤±0.06% FSO
Repeatability	≤±0.03% FSO
Full Scale Output (FSO)	
245	5 Vdc at 70°F (21°C) - standard (see options)
345	16 mA at 70°F (21°C)
Long Term Stability	≤±0.2% FSO per 6 months
Compensated Temperature	70°F to 170°F (21°C to 76°C)
Operating Temperature	-40°F to 250°F (-40°C to 121°C) - process -40°F to 185°F (-40°C to 85°C) - ambient
Storage Temperature Limits	-40°F to 250°F (-40°C to 121°C)
Temperature Effect on Zero	≤±0.01% FSO per 1°F - see options
Temperature Effect on Span	≤±0.01% FSO per 1°F - see options

ELECTRICAL

Supply Voltage	245	9.5 to 40 Vdc at 3.5 mA nominal, 5 mA max (13 to 40 Vdc for 10 Vdc output option)
	345	9.5 to 40 Vdc
Power Supply Regulation		≤±0.01% FSO per volt change over the supply voltage range
Output Signal	245	0 - 5 Vdc standard
	345	4 to 20 mA
Load Resistance	245	100K Ohms min
	345	1500 Ohms max at 40 Vdc
Zero Adjustment		±10% FSO min
Span Adjustment		±10% FSO min
Calibration Signal		80% of FSPR, by shorting pins
Calibration Signal Accuracy		≤±0.1% of the stated value
Circuit Protection		Input polarity may be reversed. Output may be short-circuited indefinitely. Over voltage protection to 1000 volts for ≤1 mSec
Insulation Resistance		≥200 MegOhms to case ground
Response Time		≤4.0 mSec
Electrical Connection		Bendix PT02E-10-6P, mates PT06E-10-6S (SR)

	245	345
Pin A	+Power	+Power/Signal
Pin B	-Power	-Power/Signal
Pin C	+Signal	Calibrate
Pin D	-Signal	Calibrate
Pin E	Calibrate	No connection
Pin F	Calibrate	No connection

MATERIALS OF CONSTRUCTION

Wetted Parts	7.5K to 15K PSI (500 to 1000 bar)	15-5 PH stainless steel
	20K to 100K PSI (1400 to 6900 bar)	PH 13-8 MO SST
Housing		304 SS with a Cadmium plated electrical connector
Weight		15 oz (425 g)
Identification		Laser etched onto body

ACCESSORIES

Direct Mount digital Indicator/Power Supply
Mating Electrical Assembly

Models 245 / 345 High Range

MECHANICAL

Pressure Connection	7.5K to 15K PSI (500 to 1000 bar).....1/4" - 18 NPT female
	20K to 50K PSI (1400 to 3500 bar)..... 1/4" F250-C high pressure tube
	60K to 100K PSI (4000 to 6900 bar)..... 5/16" F312-C high pressure tube
Proof Pressure	7.5K to 15K PSI (500 to 1000 bar)..... 1.5 times range or 20K PSI (1400 bar) max
	20K to 100K PSI (1400 to 6900 bar)..... 1.2 times range or 100K PSI (6900 bar) max
Burst Pressure	7.5K to 20K PSI (500 to 1400 bar)..... 3 times range or 40K PSI (2800 bar) max
	25K to 100K PSI (1700 to 6900 bar)..... 1.5 times range or 125K PSI (8600 bar) max
Pressure Cavity Volume	7.5K to 15K PSI (500 to 1000 bar)..... 0.32 cubic in (5.2 ml)
	10K to 100K PSI (1400 to 6900 bar)..... 0.10 cubic in (1.6 ml)
Mounting May be supported by process piping

OPTIONS

Codes	BG.....DIN 43650
	BL.....WK6-32S
	BN.....(K)PTIH-8-4P
	BQ.....(K)PT02H-10-6P
	BR.....CF3102E-14S-6P
	ZU.....Direct Cable (175°F max temperature) (79°C)
	Y().....Multiple pressure ports available. Consult factory
Improved Performance	DG.....Improved temp performance to 0.005% FSO per 1°F
	DH.....Special ranging
	DK.....Special shunt calibration setting
	DM.....Modified full scale output
	DN.....Improved non-linearity
	DQ.....Cleaning for oxygen service
	EA.....Special calibration run
	FA.....Russian Metrology Certificate
	NH.....Customer specified identification
	PW.....1/8 DIN digital indicator

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

