

PRESSURE TRANSMITTER

Models 118 / 218 / 318



FEATURES

- Stainless steel construction
- Gage, absolute, vacuum and differential pressure formats
- Cleanable pressure cavity
- Shunt calibration circuit

TYPICAL APPLICATIONS

- Test Stands
- Engine/Brakes
- Leak Detection
- Hydraulic
- Aerospace/Ground Support
- Laboratory/Research
- Hydraulic Control
- Die Casting
- Rolling Mills

DESIGNED FOR HARSH CONDITIONS

Built with bonded foil strain gage technology, the Model X18 provides outstanding reliability and performance from ranges as low as 5 PSI to as high as 15,000 PSI.

ADAPTS TO YOUR APPLICATION

The X18 is a Gage, Absolute, Vacuum or Differential transmitter, meaning is will handle your pressure application.

RUGGED CONSTRUCTION

The all stainless steel construction of the X18 is the first layer of defense against the elements. Potted electronics and options such as submersible housing complete one of the most rugged transmitters on the market.

EASY CALIBRATION

The X18 includes an internal calibration circuit. This feature allows you to calibrate the transmitter without an external pressure source.

VERSATILE DESIGN

Modular construction allows Viatran the ability to easily modify the X18 with optional outputs, proof pressures, electrical connectors and pressure ports depending on the application. The versatile design of the "18" Series makes it easy to tailor these pressure transmitters to meet your specific needs.

Viatran offers a full line of pressure transmitters for industrial test applications.

For more information, contact Viatran.

Viatran

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PERFORMANCE	Full Scale Pressure Range	(FSPR) 0-5, 10, 15 PSIV
		0-5, 10, 15, 20, 25, 30, 50, 75, 100, 150, 200, 300, 400, 500, 75
		1K, 1500, 2K, 3K, 4K, 5K 6K 7500, 10K and 15K PSIG, PSIA
		(PSID 0-6K max, 500 PSI max on reference side)
Non-Linearity (Best Fit Straight Line	e) 50-10K PSI	≤0.15% FS0
, ,	5-40 PSI, 15K PSI	≤0.25% FS0
	Hysteresis	
	Repeatability	
Full Scale Output (FSC	· -	
i un ocale output (i oo)	218	
	318	
	Resolution	
5	Long-Term Stability	
Response Time		
	218 / 318	
Zero Balanc		Fixed at 0 mV ±2% FSO at 70°F (21°C)
	218 / 318	
		≤±2.0% FS0 per 100°F (37°C)
		≤±1.0% FSO per 100°F (37°C)
	Compensated Temperature Range	
	Operating Temperature Range	40°F to 250°F (-40°C to 121°C)
	Storage Temperature Range	50°F to 250°F (-45°C to 121°C)
ELECTRICAL Supply Voltage Output Signal	e 118	10 to 15 Vdc
	218	
	318	
	Power Supply Regulation	
		1.6 to 2.4 mV/V; 2 mV/V typical
Output digne		2.4 to 3.6 mV/V; 2 mV/V typical
Load Impedance	218	
	318	
		≥50K Ohms min for ≤0.1% FSO attenuation
	318	
Circuit Protection		
		Reverse polarity does not affect calibration
Range Calibration Signal Span Adjustment		80% FSO by applying a specified resistance across Pins 2 & 4 of the
	218	80% FSO by shorting connector Pins 5 & 6
	318	100% FSO by shorting connector Pins 3 & 4
	nt 118	None
	218 / 318	Adjustable to ±10% FS0
	Bridge Resistance	350 Ohms nominal (118 only)
		>1000 MegOhms to case ground
MECHANICAL	Pressure Connection	
	Proof Pressure	
	Burst Pressure	
	Weight	
	Identification	
		Any gas or liquid compatible with 15-5 PH, 17-7 PH, 303 SS and B
	ivieasureu fiuius	
		Buria in O-ringMounts in any position with no effect on zero
ACCESSORIES	Mounting Bracket	
AUGESSURIES	Mating Electrical Connector	
	maing Liverious Controlle	
	Rubber Protective Cover	
	Rubber Protective Cover Pressure Indicating System	



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ELECTRICAL CONNECTION	118	Cannon WK4-32S
		Pin 1+Power
		Pin 2Power
		Pin 3+Signal
		Pin 4Signal
	218	Cannon WK6-32S
		Pin 1+Power
		Pin 2Power
		Pin 3+Signal
		Pin 4Signal
		Pin 5Calibrate
		Pin 6Calibrate
	318	Cannon WK4-32S
		Pin 1+Power/Signal
		Pin 2Power/Signal
		Pin 3Calibrate
		Pin 4Calibrate
OPTIONS		B()Alternate electrical connector (or wiring)
		Y()Alternate pressure connection
		G()Alternate O-ring material
		DBIncreased overpressure rating
		DCExtended temperature operation
		DDStandardized output
		DEInternal calibration
		DFBleed port
		DGImproved temperature compensation
		DHSpecial pressure range
		DMModified FSO (0 to 10 V out requires 15 Vdc input min)
		DNImproved accuracy
		DPSubmersible housing/8' direct coupled cable
		DQCleaning for oxygen service
		EASpecial calibration
		NHCustomer specified identification
		PW1/8 DIN digital indicator



