

## Strain Gauge and Vibrating Wire Pressure Transducers

### Description

Strain Gauge and Vibrating Wire Pressure Transducers are used for uplift measurement in the foundation of concrete dams, overflow settlement measurement in earthfill and rockfill dams, and all other applications where a rugged and reliable pressure transducer is required for measuring fluid pressure in closed circuits.

The pressure transducers come with either a 1/4" NPT thread or a 1/4" or 1/8" NPT port, for easy connection to pipes or other components of the hydraulic circuit to be monitored. Both transducers can be read dynamically if required by the application.

Highly reliable lightning protection is standard for the strain gauge transducer and for the vibrating wire transducer.

### SPECIFICATIONS: STRAIN GAUGE TRANSDUCER

ITEM	SPECIFICATION
Accuracy	$\pm 0.1\%$ FS
Standard Pressure Ranges	0.035 MPa through 103 MPa
Compensated Temp. Range	-10°C to 80°C
Field Rangeability	Yes
Signal Output	4-20 mA 0-5 VDC 0-10 VDC 4-20 mA + RS485 0-5 VDC + RS485
Temperature Output	Optional
Wetted Materials	Standard 316L SS Polyamide Fluorocarbon
Electrical Termination	Sealed Cable
Dimensions	109 mm X 25 mm
NPT Thread	1/4 inch male with a 1/4" or 1/8" NPT thread

### SPECIFICATIONS: VIBRATING WIRE PRESSURE TRANSDUCERS

ITEM	SPECIFICATION
Over range	1.5 X F.S.
Resolution	0.025% F.S. minimum
Accuracy	0.1% F.S.
Standard Pressure Ranges	0.07 through 20 MPa
Operating Temperature	-20 to 80°C (-4 to 176°F)
Diaphragm Displacement	<0.001 cc at F.S.
Thermal Zero Shift	<0.05% F.S./°C
Materials	Hermetically sealed stainless steel housing

Thermistor Type	NTC 3K Ohms @ 25°C
Thermistor Interchangeability	±0.2°C
Thermistor Resolution	0.1°C
Dimensions	150 mm X 25 mm
NPT Thread	1/4 inch female with a 1/4" or 1/8" NPT thread

## SPECIFICATIONS