







Strain Gauge and Vibrating Wire Pressure Transducers

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 transducer comes with a 1/4" NPT thread, or NPT port, for easy connection to pipes or other components of the hydraulic circuit to be monitored. The strain gauge transducers can be read dynamically if required by the application.

Highly reliable lightning protection is standard for the strain gauge transducer with 4-20 mA output and for the vibrating wire transducer.

> APPLICATIONS

Uplift pressure measurement in concrete dam foundations.

Retrofit of earthfill dam settlement systems.

Fluid pressure measurement in closed circuits.

> FEATURES

1/4" NPT port or thread.

Small, rugged package withstands harsh environments.

Unique cable seal system ensures water-tight integrity.

Broad selection of pressure ranges offer a standard range for your specific requirements.

Instrumentation signal compatibility operates with RST dataloggers, and computer data acquisition systems.

> BENEFITS

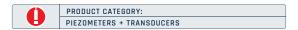
- ✓ Increase Safety
- ✓ Increase Productivity
- √ High Accuracy
- ✓ High Reliability







Strain Gauge and Vibrating Wire Pressure Transducers



SPECIFICATIONS + ORDERING

SPECIFICATIONS: STRAIN GAUGE TRANSDUCER		
ITEM	SPECIFICATION	
Accuracy	±0.1% FS	
Standard Pressure Ranges	0.035 through 21 MPa	
Compensated Temp. Range	-10°C to 80°C	
Field Rangeability	Yes	
Pressure Output	0 to 5 VDC 4 to 20 mA, RS485	
Temperature Output	Optional	
Wetted Materials	Standard 316L SS Polyamide Fluorocarbon	
Electrical Termination	Sealed Cable	
Dimensions	109 mm X Ø25 mm	
NPT Thread	1/4 inch (standard) other sizes available	

SPECIFICATIONS: VIBRATING WIRE TRANSDUCER		
ITEM	SPECIFICATION	
Over range	2 X F.S.	
Resolution	0.025% F.S. minimum	
Accuracy	0.1% F.S.	
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	

ORDERING		
ITEM	PART #	
STRAIN GAUGE TRANSDUCER 1/4" NPT THREAD		
Voltage output 0 - 5 Volts	ELSGT600	
4-20 mA output	ELSGT610	
RS485 output - Sealed	ELSGT620	
VIBRATING WIRE TRANSDUCER 1/4" NPT PORT		
0.07 Mpa Vibrating Wire Transducer with 1/4" NPT Port	VW2180-0.07	
0.175 Mpa Vibrating Wire Transducer with 1/4" NPT Port	VW2180-0.175	
0.35 Mpa Vibrating Wire Transducer with 1/4" NPT Port	VW2180-0.35	
0.7 Mpa Vibrating Wire Transducer with 1/4" NPT Port	VW2180-0.7	
1.0 Mpa Vibrating Wire Transducer with 1/4" NPT Port	VW2180-1.0	
2.0 Mpa Vibrating Wire Transducer with 1/4" NPT Port	VW2180-2.0	
3.0 Mpa Vibrating Wire Transducer with 1/4" NPT Port	VW2180-3.0	
5.0 Mpa Vibrating Wire Transducer with 1/4" NPT Port	VW2180-5.0	
7.5 Mpa Vibrating Wire Transducer with 1/4" NPT Port	VW2180-7.5	
10 Mpa Vibrating Wire Transducer with 1/4" NPT Port	VW2180-10	
35 Mpa Vibrating Wire Transducer with 1/4" NPT Port	VW2180-35	
75 Mpa Vibrating Wire Transducer with 1/4" NPT Port	VW2180-75	
ELECTRICAL CABLE		
Two twisted pairs cable with polyurethane jacket.	EL380004	
OPTIONAL READOUTS		
4-20 mA Transmitter Readout - IR420	ELIR420	
Voltage Transducer Readout - IR5000	ELIR5000	
Vibrating Wire Readout - VW2106	VW2106	
ADDITIONAL ORDERING INFO		
Cable length required.		
Pressure range.		
Output type.		