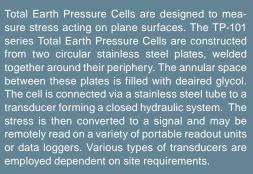
# **Total Earth Pressure Cell**





An order of Total Earth Pressure Cells being prepared for shipment.



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#### 💿 applications

Earth embankments dams. Foundations, retaining walls,

and piles.

Pipelines and culverts.

Railroad bases.

Beneath raft foundations.

Tunnel linings.

Mine backfill monitoring.

#### 👧 features

Long term stability.

High accuracy and sensitivity.

Constant monitoring capability.

Ease of data logging.

Either pneumatic, strain gauge or vibrating wire transducers.

The transducer is located 46 cm (18 in.)from the cell to avoid any influence from the transducer housing

Stainless steel construction.

A 20:1 height to diameter ratio minimizes the effects of stress distribution on the mean plane.

MINING . ENVIRONMENTAL . STRUCTURAL GEDTECHNICAL.



## 👁 specifications

DESCRIPTION	MODELS				
	LPTPC-P	LPTPC-S		LPTPC-V	
Transducer Type	PETUR <sup>®</sup> Pneumatic	*Silicon Strain Gauge		Vibrating Wire	
Range - Standard Calibration	Up to 2.0 MPa (300 psi)	Up to 2.0 MPa (300 psi)		Up to 2.0 MPa (300 psi)	
Range - Max Available	n/a	20 MPa (3000 psi)		20 MPa (3000 psi)	
Special Calibration	n/a	Up to 3.4 MPa 500 (psi)		Up to 3.4 MPa 500 (psi)	
Calibrated Accuracy	.15% F.S.	.15% F.S.		.15% F.S.	
Resolution	Equal to readout instrument	Infinite		0.025% F.S. minimum	
Excitation Voltage	n/a	Dependent on sensor		5 V sq. Wave	
Signal Output	n/a	0-100 mV 0-1 V 0-5 V	4-20 mA	1200 - 2000 Hz	
Conductor	2 X 3/16 O.D. Pneumatic Tubes	4 X #22	2 X #22	2 X #22	
Operating Temperature	-40° to +40°C -40° to +105°F	-40 to +120°C -40 to +250°F		-29° to +65°C -20° to +150°F	
*Various types of strain gauge transducers are available as neferred					

\*Various types of strain gauge transducers are available, as preferred.

### 📀 ordering info

TRANSDUCER	STANDARD CELL DIAMETER	PART #
Pneumatic	11.4 cm (4.5 in.)	LPTPC04-P
Pneumatic	24.1 cm (9.5 in.)	LPTPC09-P
Pneumatic	31.7 cm (12.5 in.)	LPTPC12-P
Silicon Strain Gauge	11.4 cm (4.5 in.)	LPTPC04-S
Silicon Strain Gauge	24.1 cm (9.5 in.)	LPTPC09-S
Silicon Strain Gauge	31.7 cm (12.5 in.)	LPTPC12-S
Vibrating Wire	11.4 cm (4.5 in.)	LPTPC04-V
Vibrating Wire	24.1 cm (9.5 in.)	LPTPC09-V
Vibrating Wire	31.7 cm (12.5 in.)	LPTPC12-V

## 📀 optional

- Total Earth Pressure Cell Axial Mounted.
- Temperature measurement (requires 2 additional conductors). Integral pore pressure measurement. Special mounting modifications such mounting ears (3 or 4 tabs).
- Custom sizes and shapes.

### 👁 accessories

Portable readout instruments. Single channel data acquisition systems. Multi channel data acquisition systems. Readout terminal stations.

### 📀 ordering info

nts.

Part number.
Pressure range requireme
Cable length.
Optional equipment.



Total Earth Pressure Cell - Axial Mounted Model LPTPC06-V-M