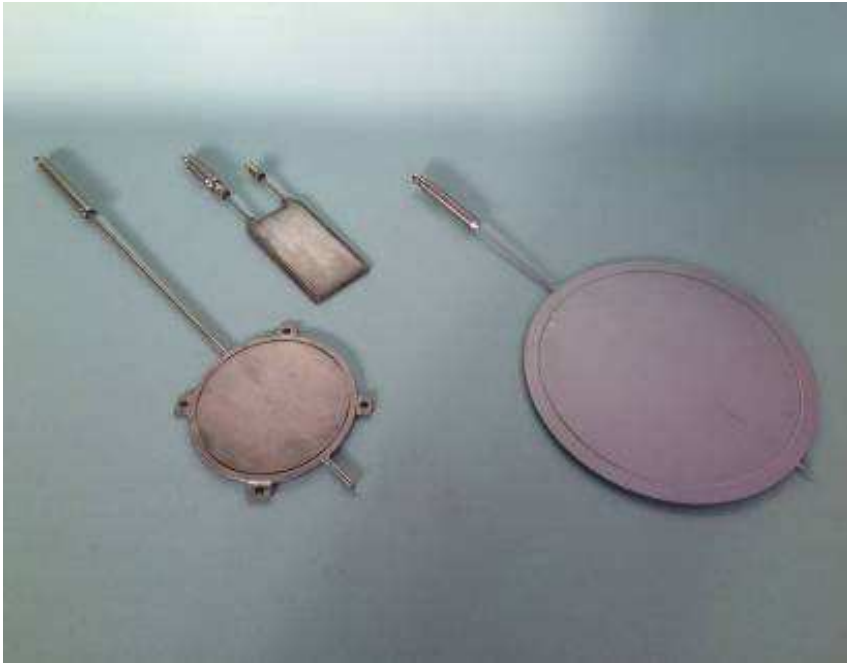


Earth pressure cells OG120



Applications

The earth pressure cells are designed to detect:

- Pressures of contact between the diaphragm or retaining walls, and soil
- Pressure in earth filled dams and embankments
- Pressures under foundations, piers and abutments of viaducts

Technical features

The total pressure cells consist of two membranes, shaped and welded together and connected to a pressure transducer through a steel tube. The cell is extremely robust and has a flat resting surface of 314 cm² on both sides.

The instrument is completely made of stainless steel and is sealed. IP68 protection makes this instrument extremely reliable.

The ease of use and the low chance of an incorrect assembly ensure safe and reliable results.

The oil filling de-aerated under vacuum ensures good thermal performance and a good sensitivity even at low pressures.

The transducer has a sturdy and thick outer protective steel and is connected directly to the pressure.

Installation

The cell must be installed with the load orthogonal to the support plane. The cell has a side drive and a sensitive side. The pressure may be measured by a portable readout unit or by a datalogger.

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Technical specifications

Code	O420PCXXXXX	O0VWPCXXXXX
Description	Total pressure cell with pressure transducer 4-20 mA	Total pressure cell with vibrating wire pressure transducer
Type of sensor	Strain gauge with membrane Inox	
Range	350, 500, 750, 1000....10000 Kpa	350, 500, 750, 1000....10000 Kpa
Output signal/Segnale in uscita	4-20 mA two wire	Hz (**)
Resolutio	0.02% F.S.	0.01% F.S.
No linearity (transducer)	0.3% F.S.	0.3% F.S.
Sovraccarico	120% F.S.	120% F.S.
Temperature operating range	from -20°C to +50°C	
External diameter	230 mm	
Diameter bearing surface	200 mm	
Thickness	9 mm	
Material	Stainless steel	
Electric cable connection	Code OCABLE30200 3x2x0.25 Cable, pur, shielded 7 mm O.D.	

(*) Cells of different sizes (diameter) can be supplied on request.

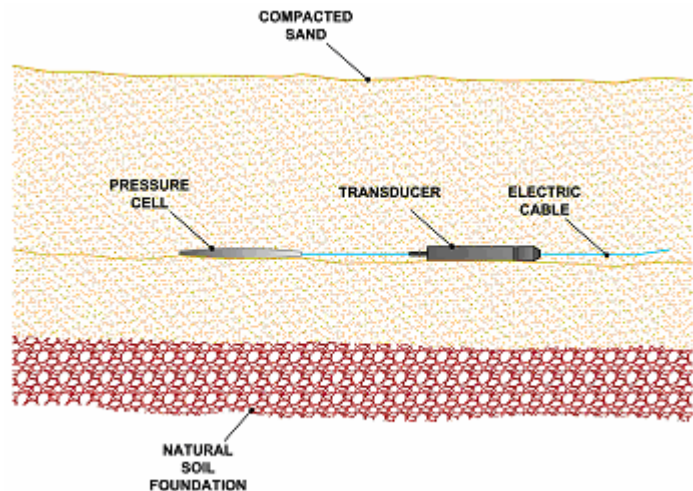
(**)The vibrating wire transducer mounted on board a thermistor for temperature control

Accessories



Datalogger D800
(Code OD800C008)

Details



Installation scheme for total pressure cell