



Earth pressure cells OG120

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 sturdy and thick outer protective steel and is connected directly to the pressure.

Application

The earth pressure cells are designed to detect:

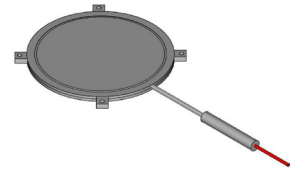
- Pressures of contact between the diaphragm or retaining walls, and soil
- Pressure in earth filled dams and embankments
- Pressures under foundations

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 data-logger.

Related Instrumentation

- Geotester 3.0
- Datalogger D800



Technical Specifications



Model	OG120-mA	OG120VW
Description	Total pressure cell with pressure transducer 4-20 mA	Total pressure cell with vibrating wire pressure transducer
Working Principle	Piezo-resistive	Vibrating Wire
Range	350, 500, 750, 1000....1500 Kpa	350, 500, 750, 1000....1500 Kpa
Output signal	4-20 mA two wire	Hz (**)
Resolution	0.02% F.S.	0.01% F.S.
Non linearity (transducer)	0.3% F.S.	0.3% F.S.
Overload	120% F.S.	120% F.S.
Temperature operating range	from -20°C to +50°C	
External diameter	230 mm	
Diameter bearing surface and thickness	200 mm; 9mm	
Material	Stainless steel	
Electric cable connection	3x2x0.25 Cable, polyurethane, shielded 7 mm O.D	
	(*) Cells of different sizes (diameter) can be supplied on request. (**)The vibrating wire transducer has a built in thermistor for temperature control	

Codes & Part Numbers

P/N2016100Earth Pressure Cell OG120 4-20 mA
 P/N2016101..... Earth Pressure Cell OG120VW vibrating wire