

TOTAL PRESSURE CELL

Description

The total pressure cells are used to control the pressures acting on contact between a support structure (for example a bending in a tunnel) and a pushing ground.

The cell consists of a rectangular steel cavity filled with a special oil and connected to an electric transducer, which transforms every change in pressure acting on the cavity in a variation of the electric signal with standard output 4÷20 mA.

Designed in several versions that make it highly versatile and suitable for every assembly need, it is supplied in different shapes and different full scale.

The transducer data can be read through the portable control unit or by using an automatic data acquisition system designed to provide continuous monitoring.

Application

- Pressure measurement in masonry, basements, etc.
- Monitoring of ground thrust on retaining walls, tunnel cladding, etc.
- Pressure Measurement in rocks and soils
- Slurry walls, dams
- Testing during building and working



Features

- Reliability also for long term monitoring
- Degree of protection IP68
- Sturdy construction and suitable for harsh environments
- Possibility to transmit the signal over long distances

Technical Specifications

	Total pressure cell
Type	piezoresistive
Sensor Material	stainless steel
Range	60 bar (on demand)
Output Signal	4-20 mA
Total Accuracy	< 0.5% F.S.
Supply Voltage	8-30 Vdc
Degree of Protection	IP68
Operative Temperature	-20.....+60 °C
Dimensions	circUlar d.260 mm (on demand)
Material	STEEL

Accessories and spare parts

- Cut to size hydraulic pipe
- Cut to size signal cable

Please Specify

CODE	PRODUCT DESCRIPTION
CPT-260	Total pressure cell, d. 260 mm, FS 60 bar
CPT-500	Total pressure cell, d. 500 mm, FS 10 bar



For further information:

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