

OVERVIEW

Vibrating Wire Pressure Cells are used in many construction applications to measure surface pressure and stresses. The pressure pads, made of high-strength steel, are connected to a vibrating wire sensor placed inside a steel tube. Loads acting on the pad cause changes in the sensor's vibration frequency. These changes are recorded using readout units or dataloggers and converted into engineering units through a calibration factor.

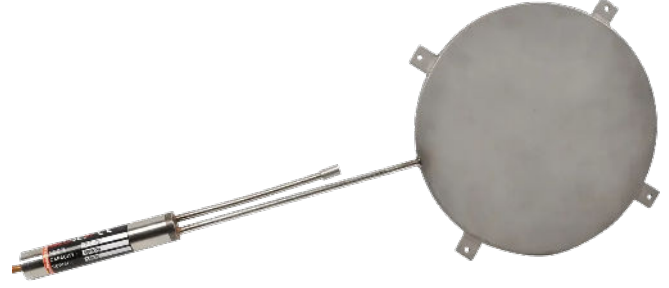
Thanks to their high-strength structure, pressure cells can be embedded in soil, rock fills, or concrete, or covered for protection. They enable monitoring of pressures and stresses transmitted to the ground by a structure, allowing validation and verification of design assumptions.

The pressure gauges include an internal thermistor, enabling temperature data monitoring.

ÜRÜN TEMEL ÖZELLİKLERİ

- **Long-Term Reliability:** The VW-TPP100 Vibrating Wire Pressure Gauge ensures long-term reliability.
- **High Pressure Range:** It is designed to operate within a high-pressure range.
- **Various Transducer Types:** Available in multiple transducer types, including vibrating wire (VW), electrical (4-20mA, 0-5Vdc), pneumatic, and fiber optic.
- **Durable Stainless Steel Construction:** The VW-TPP100 Vibrating Wire Pressure Cell is manufactured using robust stainless steel material.
- **Easy Installation and Operation:** The VW-TPP100 Vibrating Wire Pressure Cell is simple to install and operate.
- **Compliance with ISRM Recommended Methods:** Vibrating Wire Pressure Cell is designed in compliance with the methods recommended by the International Society for Rock Mechanics and Rock Engineering (ISRM).

- **Built-in Electrical Surge Protection (VW):** Certain models are equipped with built-in electrical surge protection.
- **Triple Water Barrier Protection (VW):** Some models feature a triple water barrier protection system.



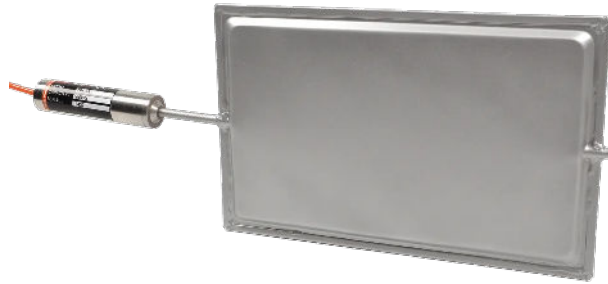
UYGULAMA ALANLARI

- **Embankment Dams:** Used to determine the magnitude and direction of stresses in embankment dams.
- **Retaining Structures:** Utilized to measure active and passive earth pressures in retaining structures.
- **Hydraulically Placed Fills:** Applied to determine the density of hydraulically placed fills.
- **Concrete Dams:** Measures contact pressure at the foundations and abutments of concrete dams.
- **Tunnel Linings:** Used to assess stresses within tunnel linings and surrounding areas.



TECHNICAL SPECIFICATIONS

The VW-TPP100 Vibrating Wire Pressure Gauge combines a robust stainless-steel construction, high-pressure range, and multiple measurement options (VW, Electrical, Pneumatic, or Fiber Optic) to facilitate stress and pressure measurements in challenging environments. Additionally, its easy installation and operation enhance efficiency, making it an ideal solution for demanding applications.



VW-TPP100 VIBRATING WIRE PRESSURE CELL	
Range	200 to 35.000 kPa Optional
Accuracy	±0.5% F.S.
Resolution	0.025% F.S. (min)
Operating Temperature	-20°C to +80°C
Material	Stainless-Steel



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FACTORY

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