CESCO EQUIPMENT

Vibration Wire Crack Meter

The GS-DM03-25 Vibration Wire Crack Meter (Displacement Meter) is a robust and highly accurate instrument designed for long-term structural displacement monitoring in demanding environments. Engineered with a fully integrated stainless steel construction, it provides reliable measurement of crack movement, joint displacement, settlement, and structural deformation in concrete, earthworks, and hydraulic structures. With built-in temperature monitoring and excellent resistance to water pressure, impact, and corrosion, the GS-DM03-25 is well suited to permanent monitoring applications where stability, durability, and precision are critical.

FEATURES

Fully Stainless Steel Construction	Integrated stainless steel design provides excellent durability, corrosion resistance, and long-term reliability in harsh environments.
Anti-Rotation & Anti-Bending Design	Designed to resist twisting and bending forces during installation and operation, ensuring stable and accurate measurements.
Impact & Drop Resistance	Rugged construction helps protect the instrument from damage during transport, installation, and field operation.
Grounding & Lightning Protection	Built-in grounding and lightning protection improves operational safety and protects the sensor from electrical surges.
Long-Term Underwater Operation	Suitable for continuous long-term monitoring in submerged or high-moisture environments.
Easy Installation	Simple and reliable installation process reduces field setup time and maintenance requirements.
Expandable Sensor Configurations	Can be equipped with accessories to create bedrock displacement gauges, multi-point displacement gauges, and soil strain gauges for a wide range of monitoring applications.

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SPECIFICATIONS

Model	GS-DM03-25
Measurement Range	0–100 / 200 / 300 mm
Accuracy	0.1% FS
Resolution	0.025% FS
Temperature Measurement Range	-40°C to +80°C
Temperature Sensitivity	±0.1°C
Temperature Accuracy	±0.5°C
Water Pressure Resistance	1 MPa

APPLICATIONS

The GS-DM03-25 Vibration Wire Crack Meter is suitable for long-term monitoring of displacement and crack movement in hydraulic, civil, and geotechnical structures. Typical applications include monitoring expansion joints in concrete structures, as well as measuring settlement, sliding, and deformation in earth dams, embankments, slopes, retaining structures, and foundation systems. Its integrated temperature monitoring capability also allows simultaneous temperature measurement at installation points for enhanced structural analysis and performance monitoring.

For more information about the GS-DM03-25 Vibration Wire Crack Meter or to discuss your project monitoring requirements, contact the team at CESCO Equipment. Our specialists can assist with product selection, technical advice, and tailored monitoring solutions for your application.