CESCO EQUIPMENT

Rebar Strain Meter

The GS-RSM01 Rebar Strain Meter is a high-precision monitoring instrument designed for measuring stress and strain within reinforced concrete and hydraulic structures.

Engineered for long-term reliability in demanding environments, it provides accurate structural performance data while also monitoring temperature at the embedding point. Its robust stainless steel construction and integrated temperature compensation make it ideal for permanent installation in infrastructure, geotechnical, and structural monitoring applications.

FEATURES

Automatic Temperature Compensation	Features automatic temperature compensation with a temperature correction coefficient smaller than the minimum reading, eliminating the need for manual temperature correction during use.
Stainless Steel Construction	Manufactured entirely from stainless steel for excellent durability, corrosion resistance, and impact resistance in harsh environments.
Lightning Protection	Grounded design provides effective lightning protection for improved operational safety and reliability.
Long-Term Underwater Operation	Designed for permanent or long-term underwater installation and continuous monitoring applications.

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SPECIFICATIONS

Model	GS-RSM01
Measurement Range	-200 MPa to +500 MPa
Resolution	0.025% FS
Accuracy	0.1% 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-RSM01 Rebar Strain Meter is suitable for long-term embedding within hydraulic structures, reinforced concrete structures, bridges, tunnels, dams, foundations, and other civil engineering applications where accurate stress monitoring of reinforcing steel is required.

It simultaneously measures both rebar stress and temperature at the installation point, providing reliable long-term structural performance data. With additional accessories, the system can also be configured for use as an anchor load cell, bedrock stress meter, and other specialised stress monitoring instruments.

For more information about the GS-RSM01 Rebar Strain 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.