

The GS-HLM01 Differential Pressure/Hydrostatic Level Meter is a high-precision settlement monitoring solution designed for long-term structural and geotechnical applications. Engineered for reliable performance in demanding environments, the system delivers accurate differential settlement measurement using advanced pressure sensing technology with integrated temperature compensation and digital signal amplification. Its robust waterproof and lightning-protected design ensures dependable operation across infrastructure, transport, tunnelling, dam, and foundation monitoring projects where precise movement detection is critical.



FEATURES

Precision Pressure Core	Utilises an imported high-precision pressure core for accurate and stable settlement measurement.
Integrated Compensation System	Features zero point, full scale, and temperature compensation with a digital integrated amplification board for reliable long-term performance.
High Measurement Accuracy	Designed to deliver precise differential settlement monitoring with resolutions down to 0.01 mm.
Waterproof & Lightning Protection Design	Robust protective structure enhances durability and reliability in harsh outdoor environments.
Simple Installation	Engineered for straightforward installation and convenient on-site maintenance.
Wide Operating Temperature Range	Suitable for operation in demanding environments from -40°C to +85°C.
IP67 Protection Rating	Sealed construction provides protection against dust and water ingress for long-term field deployment.

SPECIFICATIONS

Model	GS-HLM01
Comprehensive Accuracy	0.05~0.1 μm
Resolution	0.01 mm
Pressure Range	0 to 1000 mm H ₂ O
Power Supply Voltage	12 V DC (7~30 V DC)
Protection Level	IP67
Operating Temperature	40°C to +85°C
Compensation Temperature	-20°C to +60°C
Overload Pressure	150 kPa

APPLICATIONS

The GS-HLM01 is suited to a wide range of settlement and structural monitoring applications across civil, transport, and infrastructure projects. Typical applications include rail and highway sub-grade settlement monitoring, subway support wall monitoring, tunnel and slope movement detection, bridge pier and foundation pit settlement analysis, as well as monitoring for dams, hydro power stations, nuclear facilities, high-rise building foundations, and underground utility corridors where accurate long-term movement data is essential.



For more information about the GS-HLM01 Differential Pressure/Hydrostatic Level 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.