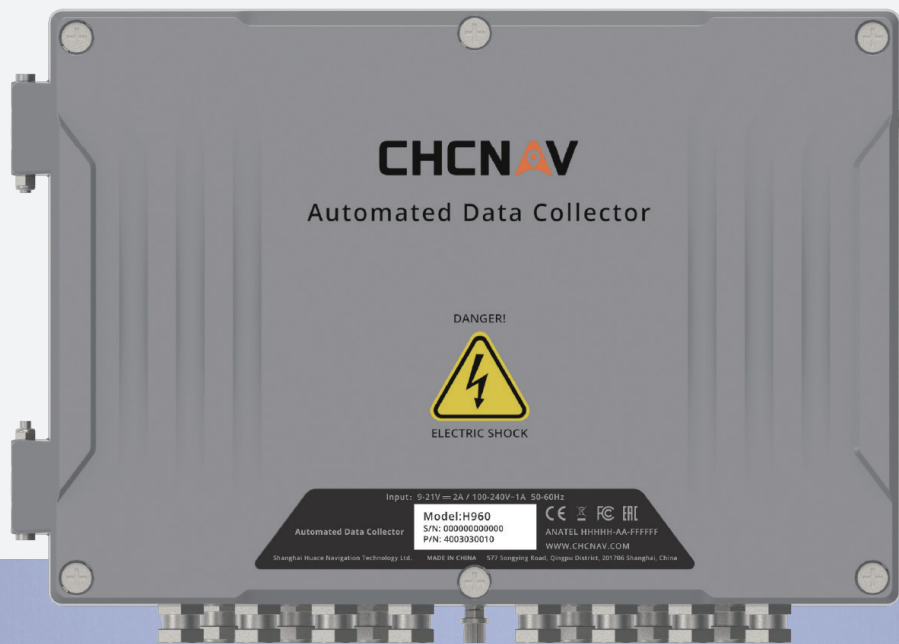


H960

Automated Data Collector



► 16-channel full-function data acquisition system

The H960 is a 16-channel automated data collector designed for long term, unattended monitoring. It supports a wide range of geotechnical and environmental sensors including rain gauges, vibrating wire piezometers, inclinometers, tiltmeters, water level gauges, stress and strain sensors, earth pressure gauges, and crack meters. Its full interface lightning protection and IP67 rated enclosure ensure reliable operation in harsh field conditions such as high humidity, lightning prone areas, and sandstorms.



► Main Features



Integrated Design



Wide Sensor Compatibility

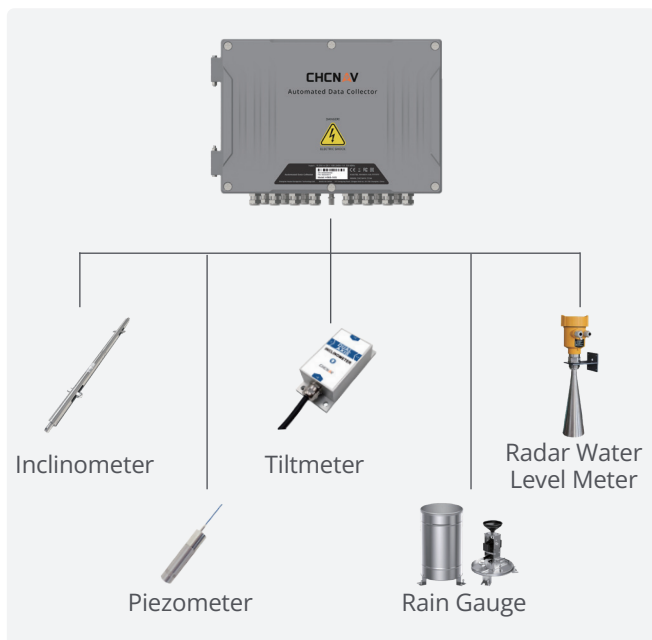


High Protection Level



Ultra-Low Power Consumption

► Versatile Sensor Support



Supports a broad range of sensors including vibrating wire, differential resistance, current, voltage, switch, and digital signals. This compatibility ensures smooth integration with equipment from major manufacturers and simplifies system setup.

► Durable Outdoor Design



Built with IP67 protection and strong lightning surge resistance. The unit can be installed directly outdoors without a cabinet and performs reliably in harsh and unpredictable environments.

► Dual Mode Data Communication



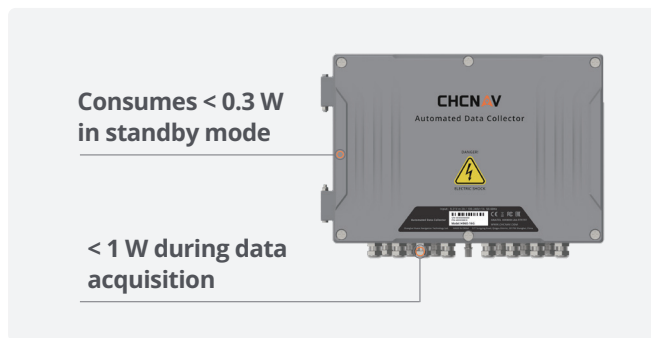
Provides both 4G wireless and RJ45 Ethernet communication. With automatic breakpoint resume, the system maintains stable and continuous data transmission even when network conditions are poor.

► Integrated Power System



Includes a high-capacity internal battery and supports mains power and direct solar input. This all-in-one power system removes the need for external controllers and delivers more than 15 days of operation during extended periods without sunlight.

► High Efficiency and Low Power



Consumes < 0.3 W in standby mode and < 1 W during data acquisition. The efficient power design, combined with the onboard power system, extends field operation time and improves long-term stability.

► Reliable Local Storage



Equipped with 32 MB of internal memory, it can store more than 1.5 million data records, protecting against data loss in the event of transmission interruption and maintaining a complete data history.

► Use Cases



Mining Monitoring



Construction Monitoring



Water Conservancy Monitoring



Transportation Infrastructure Monitoring

SPECIFICATIONS

► Steel string signal

Measurement range	Frequency: 400~6000 HZ Temperature: -40~80°C
Resolution	Frequency: 0.01 Hz Temperature: 0.1°C
Accuracy	Frequency: ≤0.2 Hz Temperature: ≤0.5°C

► Voltage signal

Measurement range	-5.0~5.0 V
Resolution	0.1 mV

► Current Signal

Measurement range	4~20 mA
Resolution	0.5 μA

► Other parameters

Accessible Signals	Vibrating wire, differential resistance, current, voltage, switch, digital
Measurement Time	Vibrating wire < 3 s, differential resistance < 4 s
Measurement Channels	16 channels
Storage	Total 32 MB storage capacity, no less than 1.5 million data records
Data Interface	RS485, RJ45
Communication Mode	4G network, RS485, LAN
Operating Temperature	-30~60°C
Operating Humidity	≤95%RH (at 40°C)
Protection Level	IP67
Instrument Net Weight	< 5 Kg
Overall Dimensions	300×210×100 mm
Power Supply Voltage	AC 100~240 V / DC 9~21 V (12 V recommended) / Built-in lithium battery power supply



*All specifications are subject to change without notice.

*Android™, Google Play and other marks are trademarks of Google LLC.

(1) A Measurement precision, accuracy in position and height, reliability and time for initialisation are dependent upon various factors including the number of satellites tracked, the observation time, the ephemeris accuracy, the atmospheric conditions, multipath and resolved ambiguities. Figures quoted are RMS (root mean square) and assume normal to favourable conditions.

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