GEONET CELLULAR LOGGERS + DATA HOSTING SYSTEM

MODEL 8920 SERIES

GEOKON®



The Model 8920 Series GeoNet Cellular Loggers + Wireless Data Hosting System with Cloud integration and secure data access

APPLICATIONS

Typical applications include...

- Groundwater monitoring
- Tailings dams

- Mining/slope stability
- Structural monitoring of buildings, bridges, excavations and tunnels
- Historical structures

INTRODUCTION

GEOKON Model 8920 Series Loggers offer a high-value cellular data collection option for all GEOKON vibrating wire instruments and digital sensor (MEMS IPI and VW) strings. Each logger comes from the factory ready for deployment and may commence with data acquisition in minutes, without needing to purchase SIM cards or contact a cellular provider.

Sensor data is collected and transferred via the cellular network to a secure cloud-based storage platform where it can be accessed through the GEOKON OpenAPI. Industry leading data visualization software, such as Vista Data Vision, or the free GEOKON Agent program can be used with the OpenAPI for data viewing and reporting. Commissioning, billing and configuration are accomplished via the easy to use GEOKON API Portal. The portal allows users to activate loggers, change settings, configure sensor channels, and view current logger status.

The API Portal can be found at api.geokon.com and the GEOKON Agent program can be downloaded at www.geokon.com/software.

TILT LOGGER SPECIFICATIONS	
Precision ¹²	±0.0075° (±0.13 mm/m)
Nonlinearity	±0.005° across ±30° range (±0.09 mm/m)
Temperature-Dependent Uncertainty	±0.019°/°C (±0.33 mm/m/°C)
Resolution ²	±0.00025° (±0.004 mm/m)
Range	±30°

¹Includes random walk (changes between consecutive readings that have no discernible cause) and seismic noise during testing.

²99% confidence interval (i.e. 99 out of 100 individual readings fall within this tolerance).

CELLULAR VW LOGGER SPECIFICATIONS	
Trueness	0.082 Hz
Frequency Precision ²	±0.146 Hz
Frequency Resolution	±0.002 Hz
Thermistor Accuracy	1% (0.5° C thermistor point match)
Thermistor Resolution	0.032° C
Scan Interval	10-1440 Minutes
Power Supply	Mains power or solar
Operating Temperature	-40° C to +85° C (range varies by power source)
VW Frequency Range	400–5000 Hz
Dimensions (L × W × H)	120 × 122 × 91 mm (single-channel, addressable, tilt) 160 × 260 × 91 mm (four-channel) 180 × 280 × 101 mm (eight-channel)

ORDERING INFORMATION

Example Part Number for a Logger: 8920-LTM-01C-CBL MODEL TYPE: 8920: Cellular NETWORK TYPE: LTM: LTE-M 03G: 3G LOGGER TYPE: 01C: Vibrating Wire 04C: 4-Channel Vibrating Wire 08C: 8-Channel Vibrating Wire ADR: Addressable TLT: Tilt

SENSOR CONNECTION: °

CBL: Cable Gland NAP: Not Applicable

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