



Vibrating Wire Readout Model 6521-GM-VTR01

FEATURES

- **Low Cost & User Friendly**
- **Portable & Robust for Field**
- **Temp (Thermistor) Readout**
- **High Accuracy & Resolution**
- **Multi-Line LCD Digital Display**
- **RS232 Port for Computer**
- **Data Storage Capability**
- **Battery-Backed Memory**
- **Programmable - Engineering Units**
- **Data Transfer Direct to PC**
- **Auto Power Shut-Off**
- **Rechargeable Battery**
- **Auto Datalogger Option**
- **Telemetry Option**



General

The Geomonitor Vibrating Wire Readout Model 6521-GM-VTR01 has been designed to read most commercially available vibrating wire sensors with resonant frequency range of 400Hz to 6000Hz. It also has an inbuilt readout for temperature sensors (thermistors) which are often incorporated within some vibrating wire sensors. The readout can store both VW and temperature readings into memory and later transfer the stored data directly to a computer.

Description

The Model 6521-GM-VTR01 VW Readout is a low cost, portable, battery operated readout unit for a variety of vibrating wire sensors such as piezometers, strain gauges, load cells, stress-

meters, extensometers, displacement transducers, settlement systems, etc.

It is a hand-held, robust, splashproof box (ABS plastic) with a membrane keypad and digital display (two line alphanumeric LCD) on the front panel. The VW sensors are connected to the readout via connector fly-leads (plugged-on to the readout). The readout is powered by a 10.2V rechargeable battery pack (charger will be supplied). If left switched on for long periods, the readout will automatically turn off after 5 minutes.

The VW readout unit incorporates a low-power microprocessor programmed to perform various functions of the readout including sensor excitation (to pluck and read VW sensors). By operating on the keys on the membrane keypad, the user is able to select various options of the readout through menu-driven displays i.e. select sensor type/ display mode (period, digits-frequency squared, microstrain, frequency, etc), store data, auto datalogger, view stored data, download data to PC, telemetry option and enter calibration constants for specific sensors (to display readings in engineering units).

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The Auto Datalogger option allows the readout to carry-out automatic recording of one sensor (VW & thermistor) at any pre-selected time intervals. For long term monitoring, supplementary power supply can be provided through additional batteries or on-site charging using solar panels. This feature will be particularly useful where the sensor needs to be monitored for long periods e.g. pump testing (drawdown testing).

The Telemetry option will allow transmission of readings to a PC (either directly or via radio frequency) to view data or for additional data storage in the PC.

The readout has data storage memory of 7 kB to store up to 500 data lines (VW & temperature per line). The stored data can be downloaded directly to a computer via RS232 cable link between the readout and computer.

The data file will be in ASCII format which permits easy download to most spreadsheet or database software programs (such as EXCEL, LOTUS 123, etc). Software will be provided for all read-out operations.

Accessories supplied with the readout include battery charger, connector fly-leads, RS232 interface cable and carry bag.

Specifications

Frequency Range:	400 to 6000 Hz
Excitation:	8V Square Wave
Resolution:	0.01 Hz
Operating Temp:	-10 to 50 o C
Themistor Accuracy:	+/- 0.5 o C
Battery Pack:	10.2V, 3.0 Ahr, Rechargeable
Battery Life:	6 hours (approximately)
Dimensions:	190 x 120 x 60 mm
Weight:	1.1 kg

Due to on-going design improvements and reviews, we reserve the right to amend product and specifications without prior notice



FOR FURTHER INFORMATION

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