

READOUT VIBRATING WIRE	SI-RO-008
	SysTel Geotech India Pvt. Ltd. Make Vibrating Wire Readout Box is a portable unit that is designed for the readout of all vibrating wire gages and transducers, and is capable of displaying the reading in digits, frequency (Hz), period (μs), or micro strain ($\mu$$\epsilon$). The readout also displays the temperature of the transducer (embedded thermistor) with a resolution of 0.1°C. All readings can be transmitted to a host computer and imported into spreadsheet and database applications. DESCRIPTION: It can display the measured frequency in terms of time period, frequency, frequency squared or the value of the measured parameter directly in engineering units. Standard engineering units, which can be displayed in are μs (micro-strain), ksc (kg/cm²), kg, t, mm, m, C and deg.
The stored readings can either be uploaded to a computer using a pen drive or can be printed. The gage reading is displayed on a 3.2" color TFT. The display is used to show the measured value and also for communication with the operator during data entry. An internal 6 V rechargeable sealed maintenance free battery is used to provide power to the indicator. A Fully charged new battery provides nearly 60 hours of operation on a single charge. A red lamp marked 'Low Batt' provided near the display lights up to indicate that the remaining battery power is less than 15 % of its rated capacity. A separate battery charger is provided to charge the internal battery. The read-out unit is housed in an enclosure with weatherproof connectors for making connections to the transducer and the battery charger.	
FEATURES: • Robust, waterproof, easy to operate, low cost • Display measured parameter frequency, frequency squared, time period • Display the measured parameter directly in proper engineering unit storage facility for calibration coefficients of up to 700 reading of 100 transducers. • A battery backed real time clock is provided for time and date stamping of each measurement stored. • The read-out unit provides non-linearity correction using polynomial constants. • Powered with internal 6 V rechargeable SMF batteries.	
TECHNICAL SPECIFICATION	
POWER SUPPLY Internal rechargeable SMF Battery 6V 4Ah, 220 VAC$\pm$ 10% & Charger adopter	

INPUT: Any two-wire vibrating wire type Transducer with 110-150 Ω sensor coil and 3 k Ω temperature sensor thermistor.

DISPLAYED PARAMETER

Frequency, frequency square, time period and engineering units. Standard engineering units, which can be displayed, are μs (micro-strain), $\text{ksc} (\text{kg}/\text{cm}^2)$, kg, t, mm, m, C and Deg.

TEMPERATURE MEASUREMENT

Temperature measuring range: 20⁰ to 60⁰. Only external 3 k Ω thermistor.

DISPLAY: 3.2" color TFT

KEYBOARD: Selectable option

RTC - A real time clock automatically stored data and time while storing data

HOUSING

263x206x156mm ABS Plastic, IP-67 protected box.