



**LONG RANGE**  
**LOW POWER CONSUMPTION**  
**QUICK SETUP USING ANDROID APP**  
**EASY INTEGRATION TO LSGWAY NETWORK**

The LSVW5 is a 5 channel wireless, low power and user-friendly data logger for all pluck-type vibrating wire sensors on the market.

### Description

The LSVW5 is a low power and long range **wireless Vibrating Wire (VW)** data logger designed to monitor all pluck-type vibrating wire sensors on the market. The LSVW5 can be used to monitor up to 5 vibrating wire instruments.

The LSVW5 is ideal for use in small and medium size projects, and especially for piezometers, strain gauge and other vibrating wire applications.

Its non-volatile memory can store up to 5x72,500 records. Each record includes the VW reading and temperature reading with time and date. When the memory is full, recording either stops or overwrites the oldest record.

Data can easily be retrieved in **Hz** and **Engineering Units** from any network connected computer thanks to the web based software through the LSGWAY. Data can also be retrieved locally using a USB cable. Data is collected in CSV format and further facilitates download to a spreadsheet software for post-processing.

The **LSVW5** is housed in an IP 67 enclosure fitted with cable glands for signal cable.

The **LSVW5** requires 4 lithium C-Cell battery providing power for up to up to 10 years in a moderate temperature and readings taken every hour.

### Key Features

- Up to 10 year autonomy on 4 C-cell Lithium batteries
- Up to 15 km range from base station LSGWAY
- Star configuration wireless network
- Easy set-up with smartphone app
- 5x 72,500 records in non-volatile memory
- Data retrieval using web based software or USB cable
- Integral barometer for compensation
- IP 67 rated enclosure

### Applications

- Piezometer
- Crackmeter
- Multi-Point Extensometer
- Strain Gauge
- Total Pressure Cell
- Temperature Sensors

### Specifications

Memory	72,500 records in non volatile memory for each of the 5 sensors including temperature and time
Data retrieval	Web-based software thru LSGWAY base station connection cable or USB cable with Android app
Logger Schedule	Logger start time for synchronization, reading interval
Sensor Setting	Sensor ID, serial number, calibration factor and sweep range for each sensor Thermistor for temperature sensors
Resolution	0.12Hz for vibrating wire sensors 1 ohm for temperature sensors
Accuracy	0.02% of F. S. for vibrating wire sensors 0.05°C for temperature sensors
VW Measurement Range	300 to 7000 Hz
Temperature measurement range	0 ohm to 4 Mohm(Thermistor )
Temperature operating range	-40 to 85°C
Barometer range	30 to 110 kPa
Barometer accuracy	+/- 0.12 hPa
Battery	4x Lithium C-Cell, 5.8 Ah (SAFT LSH 14 recommended)
Battery life estimation	5 years for 5 samples every 5 minutes 10 years for 5 samples every 30 minutes
Weatherproofing	IP 67 enclosure & cable glands for signal cable. Plug are provided for unused cable glands
Dimensions	145 x 220 x 61 mm