

## APPLICATIONS

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- Data acquisition of civil engineering sensors in special locations and conditions.
- Read extensometers, piezometers or in-place inclinometer sensors in harsh environments.
- Read sensors in a manhole in the middle of a roadway or runway with an in-road antenna at the surface .

## DESCRIPTION

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The SL Series is an interface module designed to read data from installed sensors (electrical and/or vibrating wire) in a borehole. Even when water is a factor, the module can be configured to meet your exact project specifications.

The PVC housing has been tested under water at pressures up to 3 bars. Its waterproof design is ideal for applications where extensometers, piezometers or in-place inclinometer sensors need to be read at a location completely flush with the surface. The battery pack is installed in an isolated housing at the bottom to allow easy access for battery replacement.

The module can also be used as a standalone logger. An example of a typical application is installing the datalogger in a manhole in the middle of a roadway or runway with an in-road antenna at the surface. The antenna is waterproof, robust and resistant to many chemical products like oil or gasoline. A base station located in a safe location, outdoors or indoors, will be able to receive the data.



## FEATURES

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- **Different configurations available**
- **Compatible with different types of sensors**
- **Waterproof (3 bars)**
- **Logging or radio transmission options**

## SPECIFICATIONS

### Physical / Environmental

Dimensions:	171 x 381 mm
Water resistance:	300 kPa (IP68)
Battery life:	1 year with one reading and one transmission per day
Temperature range:	-25 to +50°C (-55 to +80°C optional)

### Analog reading

Accuracy:	+/-0.12% of F.S.
Resolution:	0.03% of F.S.

### Vibrating wire

Accuracy:	+/- 0.013% of F.S
Resolution:	0.001 Hz RMS

### Radio module (RL or RX model)

Frequency:	910 to 918 MHz
Baud rates:	from 1200 to 38.4 kbps

### Model number description :

Family name	Sensor type	Interface type
SL	6VW : 6 vibrating wires with temp	RL : Radio transmitter with logging capacity
	2VW : 2 vibrating wires with temp	RX : Radio transmitter without logging capacity
	IPI : IPI chain	SL: Serial connection with logging capacity
	2AN : 2 analog sensors	
	6AN : 6 analog sensors	

### Standard Model

Model*	Sensors	Radio	Logging capacity
SL-6VW-RL	6 vibrating wires	Yes	Yes
SL-6VW-RX	6 vibrating wires	Yes	No
SL-2VW-RL	2 vibrating wires	Yes	Yes
SL-2VW-RX	2 vibrating wires	Yes	No
SL-IPI-RL	In-Place Inclinator	Yes	Yes
SL-6PM-RL	6 analog sensors	Yes	Yes
SI-2VW-SL	2 vibrating wires	No	Yes

\* Other configurations and combinations also available

### ACCESSORIES

- Connecting cable for piezometers
- Connecting cable for extensometers
- Connectors for In-Place Inclinator
- Extra battery pack
- 3dB In-Road Antenna