



**WATERPROOF
MANY CONFIGURATIONS AVAILABLE
FOR ALL TYPES OF SENSORS**

The waterproof SL wireless module offers a variety of configurations to read and transmit data from any electrical and/or vibrating wire sensors

Description

The **SL Series** is a robust interface module designed to read data from installed sensors (electrical and/or vibrating wire) in a bore-hole. 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 **SL** module can also be used as a standalone logger. Typical application would be the installation of a datalogger in a manhole located on a roadway or runway. The in-road antenna would transmit the data to a base station located in a safe indoor or outdoor environment. The proposed antenna is waterproof, robust and resistant to many chemical products like oil or gasoline.

Key Features

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

Applications

- 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 located in on roadway or runway with a surface-mount in-road antenna

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

Module	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-2PM-RL	2 analog sensors	Yes	Yes
SI-2VW-SL	2 vibrating wires	No	Yes

* Other configurations also available

Ordering Information

Please specify:

- Model number

Optional Accessories

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