

GeoLogger Linx™ Series

A range of low-cost battery powered data loggers for stand-alone monitoring which can be used with all types of vibrating wire sensors



Android App
In-built Barometer
Auto-Load Calibration Factors
IP67 Waterproof Rating
Polycarbonate Enclosure



GeoLogger Linx™ Series



Overview



The GeoLogger Linx™ is a range of low-cost battery-powered data loggers for stand-alone monitoring which can be used with all types of vibrating wire sensors such as piezometers, load cells, crack meters, joint meters, strain gauges, pressure cells, weir monitors and extensometers, together with their associated thermistors.

The Linx's large 8MB internal memory enables the storage of up to 270,000 readings. As the internal memory operates as a USB mass storage device, the data is accessible through a mini USB interface meaning data can also be transferred easily to a laptop device in the field in csv format.

Supplied with free LINX software, configuration for sensors and logger parameters, such as date, time, and sweep frequency range, is quick and easy. Automatic uploading of calibration factors can also be done using a simple text file provided at the time of supply.

Housed in a rugged Polycarbonate IP67 rated tamper-proof enclosure, GeoLogger Linx™ loggers are suitable for the harsh environment typically found within civil and structural engineering applications.

APPLICATIONS

Stand-alone monitoring of VW sensors and/or thermistors such as:

Piezometers

Crack Meters

Joint Meters

Strain Gauges

Pressure Cells

Load Cells

Rod Extensometers

Weir Monitors

FEATURES

Compatible with all VW sensors

Reads VW & temperature

Auto fill of calibration data

Low power requirement

Standard Alkaline battery

Lithium battery option

Battery life > 8 years

Robust construction

Simple to install & download

8MB internal memory

Download via USB

LINX software included

IP67 enclosure

In-built barometer

In-built lightning protection (TVS)

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Linx Specifications

MODEL	LINX-1C	LINX-4C	LINX-8C
Channels	1 VW + 1 NTC	4 VW + 4 NTC	8 VW + 8 NTC
VIBRATING WIRE			
Excitation	0 - 5 V	0- 5 V	0- 5 V
Range	260 to 4800 Hz	260 to 4800 Hz	260 to 4800 Hz
Resolution	0.10 Hz	0.10 Hz	0.10 Hz
Accuracy ¹	0.01% Full Scale	0.01% Full Scale	0.01% Full Scale
THERMISTOR			
Range	1000 to 64000 Ohm	1000 to 64000 Ohm	1000 to 64000 Ohm
Resolution	<4 ohm	<4 ohm	<4 ohm
Accuracy(25 °C) ²	0.3 °C	0.3 °C	0.3 °C
BAROMETER (TEMPERATURE COMPENSATED)			
Unit	mbar	mbar	mbar
Relative accuracy	±1.5 (0°Cto 55°C)	±1.5 (0°Cto 55°C)	±1.5 (0°Cto 55°C)
COMMUNICATION			
Port	Mini B USB	Mini B USB	Mini B USB
Software	Linx	Linx	Linx
Readout	Windows Vista onwards	Windows Vista onwards	Windows Vista onwards
DATA STORAGE			
Memory	8MB	8MB	8MB
Readings	up to 279,000	up to 135,000	up to 83,000
On memory full	Overwrite old data or stop	Overwrite old data or stop	Overwrite old data or stop
Reading interval ³	sec/min/hr/day/month/year	sec/min/hr/day	sec/min/hr/day
Time format	Day/month/year; hr/min/sec	Day/month/year; hr/min/sec	Day/month/year; hr/min/sec
POWER			
Voltage	3-7Vdc	3-7Vdc	3-7Vdc
Standard battery ⁴	4 x AA Alkaline	4 x C Alkaline	4 x C Alkaline
Battery life ⁵	>8 years / 8 memory fills	>5 years / 4 memory fills	>5 years / 3 memory fills
Operating temperature	-20°Cto 55°C	-20°Cto 55°C	-20°Cto 55°C
ENCLOSURE			
Material	Polycarbonate	Polycarbonate	Polycarbonate
Dimensions (L x W x H)	150 x 80 x 60mm	191 x 125 x 90mm	191 x 125 x 90mm
Rating	IP67	IP67	IP67
Weight (with battery)	431g	1225g	1225g
Weight (without battery)	333g	945g	945g

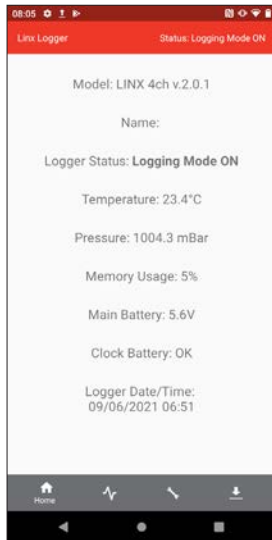
¹ Sensor dependent ² Sensor & temperature dependent ³ Scheduled reading available

⁴ Lithium battery available on request ⁵ Depending on temperature and sampling interval

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Linx App

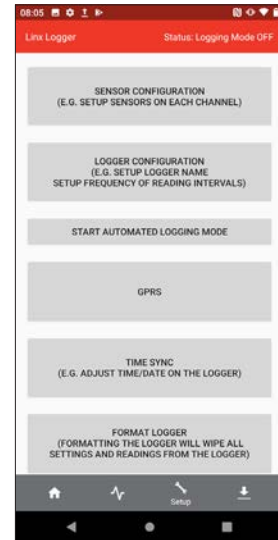
This Android app allows you to setup your loggers and download data directly to your mobile device via a USB OTG cable, allowing you to send the data directly to those who need it. The app has inbuilt connection to our digital calibration data making downloading calibration factors even simpler.



App automatically opens and loads logger configuration when connected.



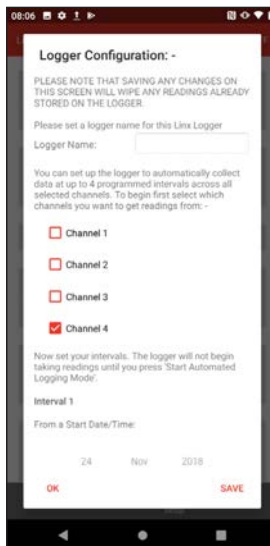
Easily see connected sensors readings in real time.



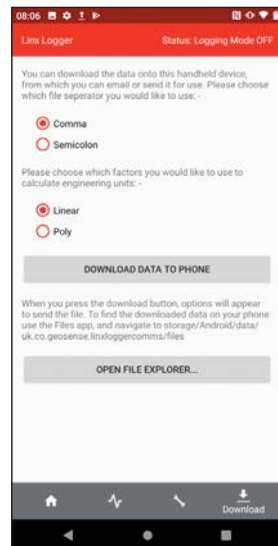
All configuration options from PC app built into the mobile app



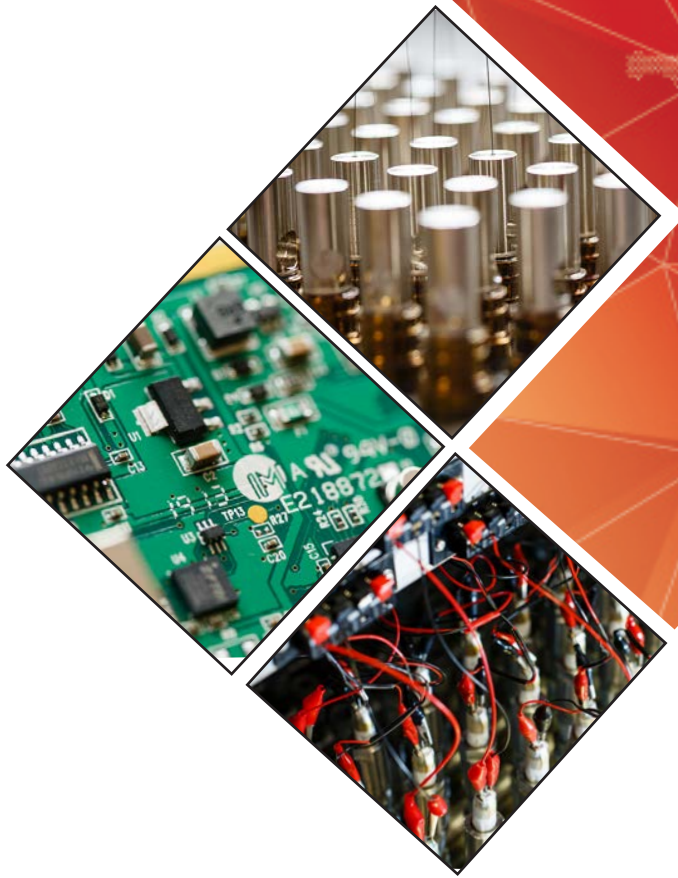
Fully configure each sensor with factors pulled straight from our cloud service GeoHUB.



Configure up to 4 different logging configurations.



Download your data to the phone.



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