

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



NEW FEATURES
Free Android App
Use on any Android Device
IP67 Waterproof Rating
Polycarbonate Enclosure
Auto-Load Calibration Factors
In-built Barometer



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 new Linx App means data can easily be accessed on site by any Android device such as a smartphone or tablet. The affordable robust Cedar™ CT5 Handheld and CT7G Tablet are available from Geosense.

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)

GeoLogger Linx™ Series

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
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

GeoLogger Linx™ Series

Rugged Handheld & Tablet



APPLICATIONS

Rugged Android smartphone and tablet - ideal for all site work

Use with the Geologger Linx App

FEATURES

Enhanced Outdoor Display Readability

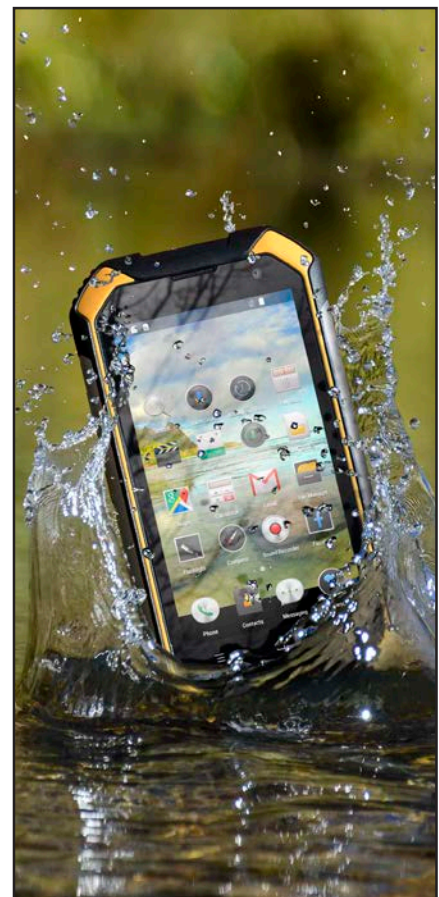
All-Day Battery Life

Reasonably priced

Highly Versatile Android OS

The Cedar™ CT5 Rugged Handheld and CT7G Tablet by Juniper Systems are ideal for using the new Linx App. Both are IP68-rated for protection against dust and water, and are built to withstand accidental drops from up to three feet onto concrete, making them the sensible option for site work.

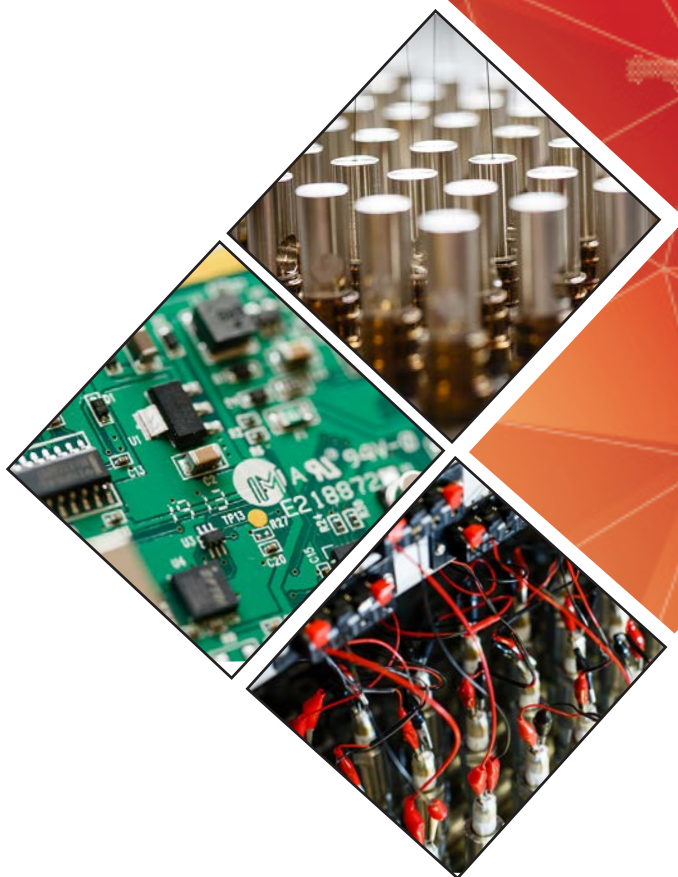
They provide affordable durability with an Android® 6.0 operating system, fast powerful processing capabilities, a long battery life and large memory. Compact and lightweight, the CT5 is designed for all-terrain data collection and communication. The CT7G is great for outdoor visibility with a large 7-inch display. Both are available from Geosense.



GeoLogger Linx™ Series

CT5 & CT7G Specifications

MODEL	CT5	CT7G
SYSTEM		
Operating System	Android 6.0	Android 6.0
Processor	MTK6755Octa-core2.0GH	MediaTek MT673564-bitquad-cor
CONNECTIVITY		
	4G LTE, Dual Micro SIM Card Slots	4G LTE, Dual Micro SIM Card Slots
	Wi-Fi®:IEEE802.11a/b/g/n	Wi-Fi®:IEEE802.11a/b/g/n
	Bluetooth® 4.1	Bluetooth® 4.1
	GPS+GLONASS	USB Disk
	FM Radio	FM Radio
	Near-Field Communication	Near-Field Communication
PHYSICAL		
Weight (inc battery)	225 g	590 g
Dimensions	152.3 x 81 x 1 6.6mm	215.56 x 135.8 x 18.9mm
PORTS		
	AC Adapter110~240V, Micro USB	Micro USB, 3.5mm audio jack, USB OTG
BATTERY		
	Li-Polymer 4500mAh	Li-Ion 7000mAh
DISPLAY		
	High-visibility HDIPS display	High-visibility HDIPS display
Screen Size	4.7"(119mm) Resolution: 720 x 1280	7"(178mm) Resolution: 800 x 1280
Screen Orientation	Portrait	Auto rotate
STORAGE		
Memory (RAM)	3GB	2GB
Storage	Internal 32GB	Internal 16GB, Micro SD card: up to 32G
RUGGEDNESS		
Protection	IP68 waterproof & dustproof	IP68 waterproof & dustproof
Shock/Drop	Up to 3'(0.91m) onto concrete	Up to 3'(0.91m) onto concrete
Operating Temperature	-15°C to 55°C	-15°C to 55°C
CAMERA		
	Front: 5MP Rear: 13MP	Front: 2MP Rear: 13MP
TOUCH SCREEN		
	Capacitive	Capacitive



Geosense Ltd, Nova House, Rougham Industrial Estate, Rougham, Bury St Edmunds, Suffolk IP30 9ND, England

www.geosense.co.uk e sales@geosense.co.uk t +44(0)1359 270457