

## 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               |
| <b>VIBRATING WIRE</b>         |                            |                            |                            |
| 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 <sup>1</sup>         | 0.01% Full Scale           | 0.01% Full Scale           | 0.01% Full Scale           |
| <b>THERMISTOR</b>             |                            |                            |                            |
| Range                         | 1000 to 64000 Ohm          | 1000 to 64000 Ohm          | 1000 to 64000 Ohm          |
| Resolution                    | <4 ohm                     | <4 ohm                     | <4 ohm                     |
| Accuracy(25 °C) <sup>2</sup>  | 0.3 °C                     | 0.3 °C                     | 0.3 °C                     |
| <b>COMMUNICATION</b>          |                            |                            |                            |
| Port                          | Mini B USB                 | Mini B USB                 | Mini B USB                 |
| Software                      | Linx                       | Linx                       | Linx                       |
| Readout                       | Windows Vista onwards      | Windows Vista onwards      | Windows Vista onwards      |
| <b>DATA STORAGE</b>           |                            |                            |                            |
| 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 <sup>3</sup> | 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 |
| <b>POWER</b>                  |                            |                            |                            |
| Voltage                       | 3-7Vdc                     | 3-7Vdc                     | 3-7Vdc                     |
| Standard battery <sup>4</sup> | 4 x AA Alkaline            | 4 x C Alkaline             | 4 x C Alkaline             |
| Battery life <sup>5</sup>     | >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               |
| <b>ENCLOSURE</b>              |                            |                            |                            |
| 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                       |

<sup>1</sup> Sensor dependent

<sup>2</sup> Sensor & temperature dependent

<sup>3</sup> Scheduled reading available

<sup>4</sup> Lithium battery available on request

<sup>5</sup> 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                                    |
|-----------------------|------------------------------------|---|
| <b>SYSTEM</b>         |                                    |   |
| Operating System      | Android 6.0                        | Android 6.0                             |
| Processor             | MTK6755Octa-core2.0GH              | MediaTek MT673564-bitquad-cor           |
| <b>CONNECTIVITY</b>   |                                    |   |
|                       | 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                |
| <b>PHYSICAL</b>       |                                    |   |
| Weight (inc battery)  | 225 g                              | 590 g                                   |
| Dimensions            | 152.3 x 81 x 1 6.6mm               | 215.56 x 135.8 x 18.9mm                 |
| <b>PORTS</b>          |                                    |   |
|                       | AC Adapter110~240V, Micro USB      | Micro USB, 3.5mm audio jack, USB OTG    |
| <b>BATTERY</b>        |                                    |   |
|                       | Li-Polymer 4500mAh                 | Li-Ion 7000mAh                          |
| <b>DISPLAY</b>        |                                    |   |
|                       | 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                             |
| <b>STORAGE</b>        |                                    |   |
| Memory (RAM)          | 3GB                                | 2GB                                     |
| Storage               | Internal 32GB                      | Internal 16GB, Micro SD card: up to 32G |
| <b>RUGGEDNESS</b>     |                                    |   |
| 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                           |
| <b>CAMERA</b>         |                                    |   |
|                       | Front: 5MP Rear: 13MP              | Front: 2MP Rear: 13MP                   |
| <b>TOUCH SCREEN</b>   |                                    |   |
|                       | Capacitive                         | Capacitive                              |



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