

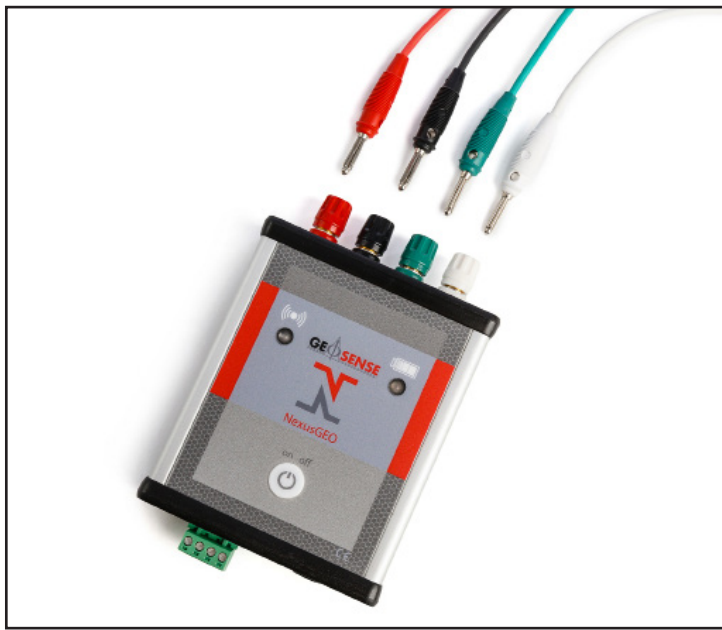
NexusGEO® Bluetooth Interface

A Bluetooth interface which can be used to connect a wide range of sensors with analogue or digital outputs to an Android smart device for manual readout



NexusGEO® Bluetooth Interface

Overview



The Geosense NexusGEO® is a Bluetooth Interface which can be used to connect a wide range of sensors with analogue or RS-485 digital outputs to an Android smart device. This means data can easily be accessed on site by any Android device such as a smartphone or tablet.

Specially-developed by Geosense, it is designed to offer interoperability between sensors and the chosen Android device. This enables the user to benefit from the increased processing capability and connectivity of a smart device over a standard readout.

The user can simply read and store data or read, store and transmit it via a mobile network.

The NexusGEO® App makes it possible to download raw data or acquire calibration factors from the sensor which can then be used to convert the data into engineering units. All data can then be downloaded as a CSV file either locally onto the Android device or synchronised to a central database.

Colour-coded connections for the different analogue sensor types plus a simple digital connector makes the NexusGEO® easy to use. It comes complete with battery charger and colour coded 'jumper cables' complete with crocodile clips.

APPLICATIONS

Bluetooth Interface for use with :

Piezometers

In-Place Inclinometers

Tilt Meters & Tilt Beams

Strain gauges

Rod extensometers

Settlement systems

Joint Meters & Crack Meters

Pressure cells & NATM cells

Load cells

Thermistors & Thermocouples

FEATURES

Android compatible

Bluetooth technology

Multiple sensor inputs

Auto calibration factors upload

Purpose-designed APP

Small & lightweight

Easy to use

Re-chargeable battery

Displays battery status

Fully CE compliant

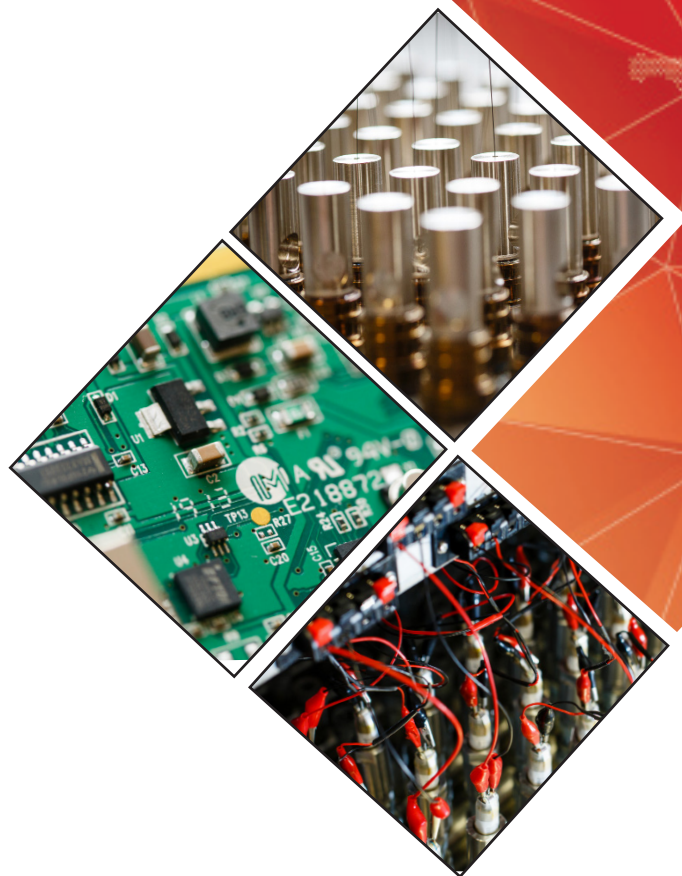


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Specifications

GENERAL

Signal inputs	VW (Hz), mA, V, mV/V, Pt100, NTC, RS-485
Range	VW Hz 400-5000 mA 4-20 V Single ended 0-100 V Differential 0-10 mV/V Singled ended 0-20 mV/V Differential 0-1000 Pt100 Ω 15-400 NTC Ω 250-50,000
Power supply	Internal 12Vdc Ni-Mh battery, rechargeable
Sensor supply	+20V, +12V, +5V, 750uA, 50uA
Current supply@12V	100mA @ 4-20mA, no load 85mA @ +20V single, no load 70mA @ +12V dual, no load 60mA @ mV/V dual, no load 72mA @ Pt100, 100 Ω load 55mA @ NTC, 3K Ω load 60mA @ VW, 777.1Hz 15mA @ no Bluetooth connection
Measurement resolution	24 bit, 0.1Hz for VW
Display	Android device
Sensor connection	Analogue (4mm socket), Digital RS-485
Temperature stability	+15ppm/°C maximum
Operating temperature	-20 to +70 °C
Enclosure	IP65
Dimensions L x B x H	150 x 105 x 35mm
Weight	465g



HEAD OFFICE

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

+44 (0)1359 270457
sales@geosense.com
support@geosense.com

NORTH AMERICA OFFICE

15 West 38th Street
Suite 632
New York
NY 10018

+1 518-920-3483
sales@geosense.com
support@geosense.com

www.geosense.com

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