



M101



MAIN FIELDS OF APPLICATION

- Geotechnical engineering
- Hydrology
- Meteorology

A Bluetooth interface to connect sensors with analogue or digital outputs to an Android smart device





M101



The M101 is a Bluetooth Interface which can be used to connect a wide range of sensors with analogue or RS485 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 GEI, 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 M101 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 M101 easy to use. It comes complete with battery charger and colour coded 'jumper cables' complete with crocodile clips. The M101 can be used on any Android device.

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

Applications

- Piezometers
- In-Place Inclometers
- Tilt Meters & Tilt Beams
- Strain gauges
- Rod extensometers
- Settlement systems
- Joint Meters & Crack Meters
- Pressure cells & NATM cells
- Load cells
- Thermistors & Thermocouples VW
- GEI digital sensors and devices

Technical Characteristics

Signal inputs:	VW (Hz), mA, V, mV/V, Pt100, NTC, VW, RS485;		
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:	+20 V, +12 V, +5 V, 750 μ A, 50 μ A;		
Current supply @12V:	100 mA @ 4-20 mA, no load	85mA @ +20V single, no load	
	70 mA @ +12 V dual, no load	60mA @ mV/V dual, no load	
	72 mA @ Pt100, 100 Ω load	55mA @ NTC, 3K Ω load	
	60 mA @ VW, 777.1 Hz	15mA @ no Bluetooth connection;	
Measurement resolution:	24 bit, 0.1 Hz for VW;		
Display:	Android device;		
Sensor connection:	Analogue (4mm socket), Digital RS485;		
Temperature stability:	+15ppm/ $^{\circ}$ C maximum;		
Operating temperature:	from -20 to +70 $^{\circ}$ C;		
Enclosure:	IP65;		
Dimensions L x B x H:	150 x 105 x 35mm;		
Weight:	465g.		



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