



Multi-Purpose Readout (MPR1)

A versatile, battery-powered
manual readout unit for
analogue sensors



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Overview



The Geosense® MPR1 is a versatile manual readout unit compatible with a wide range of analogue sensors.

Designed for demanding field conditions, the MPR1 features a clear backlit LCD display, waterproof keypad, and a simple six-button interface for quick and reliable operation.

Battery powered by standard AA batteries, the MPR1 is ideal for reliable field use.

Interchangeable, colour-coded connector cables allow fast connection between sensor types, with crocodile clip connections for quick and easy attachment.

Its rugged design, high accuracy, and long-term reliability make it suited to geotechnical and structural monitoring applications.

APPLICATIONS

Manual readout for:

Strain Gauge Piezometers

Strain Gauge Load Cells

LP Joint Meters & Crack Meters

Pressure Cells & NATM Cells (4-20mA output)

Thermistors & Thermocouples

FEATURES

Compatible with multiple sensor types

Compact, lightweight, and portable design

Intuitive, easy-to-use operation

Large glove-friendly keypad buttons

Waterproof design for reliable field use

Backlit display for visibility in all conditions

Powered by 4 x standard AA batteries

Battery status indicator

Fully CE compliant

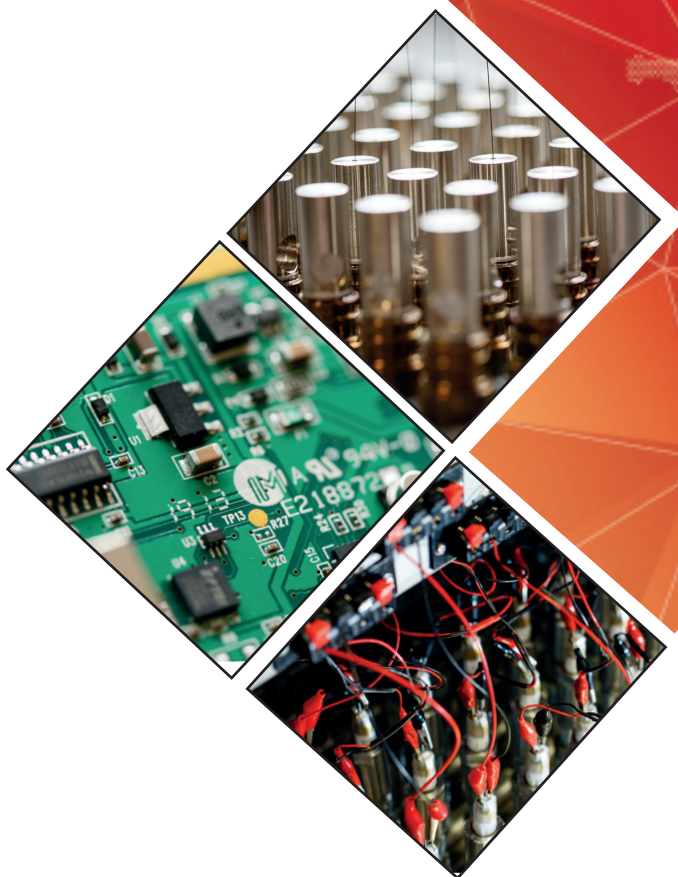
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Specifications

MEASUREMENT	RANGE	RESOLUTION	ACCURACY	EXCITATION
4-20mA	4-20mA	0.001mA	0.0075mA (0.05% FSO)	+16V
PT100 (2wire)	-20°C - 80°C	0.1°C	±0.1°C @20°C (0.1% FSO)	Current (750µA)
PT100 (3/4wire)	-20°C - 80°C	0.1°C	±0.1°C (0.1% FSO)	Current (750µA)
mV/V	±25mV/V	0.001mV/V	0.025mV/V (0.1% FSO)	+5V
NTC 3K/10K (2wire)	-20°C - 80°C	0.1°C	0.1°C (0.1% FSO)	+2.5V
NTC 3K/10K (4wire)	-20°C - 80°C	0.1°C	0.1°C (0.1% FSO)	+2.5V

General

SIGNAL INPUTS	4-20mA 2C mV/V 4C PT100 (4C/3C/2C) 3K NTC (2C/4C) 10K NTC (2C/4C)	BATTERY LIFE	MODE	DURATION
			4-20mA/SGP 20mA Output	24 hours (minimum)
MEASUREMENT INTERVAL RANGE	Manual, 2 second refresh		All other modes	48 hours (maximum)
POWER SUPPLY	4 x 1.5V AA Alkaline Batteries			
USER INTERFACE	6 Button Keypad 4 x 20 Backlight LCD Display			
OPERATING TEMPERATURE	-20 to +60 °C			
IP RATING	IP65			
DIMENSIONS L X W X H	165 x 90 x 44mm			
WEIGHT	520g (Includes batteries and cable)			
CABLE	4 core PUR sheath			



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