

readout logger unit



TECHNICAL INSTRUCTION

Manual Readout unit for geotechnical instrumentation



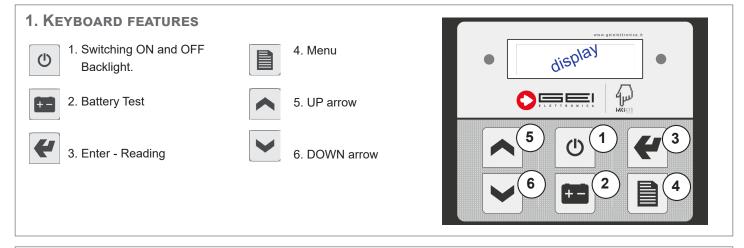


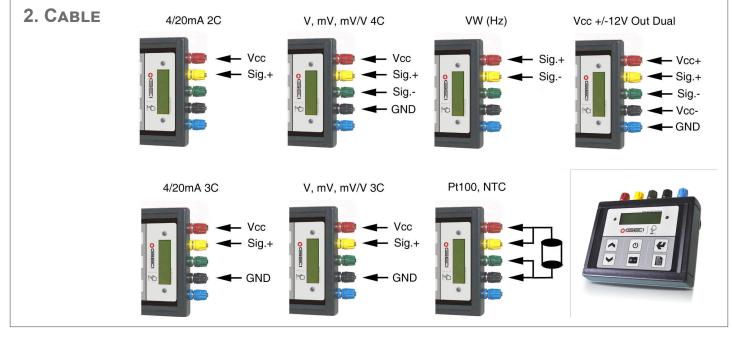
MultiGeo (MG01) is a multifunction readout unit for manual readings. The device allows to read the main types of instruments, presented on the market. MultiGeo is designed especially for the acquisition of the following types of transducers:

- 4/20mA: the main part of geotechnical instrumentation is available in the version which answers this standard;
- Volt: clinometers, strain gauges, crack meters, etc.;
- mV/V:
- Temp.:
- Hertz/Digit:
- temperature sensors, Pt100, NTC from 3 KOhm;

load cells, Wheatstone bridges, etc.;

vibrating wire instrumentation such as: piezometers, strain gauges, etc..





3. ACQUISITION MODE: Press the ON/OFF Key to switch on the device. Press and hold the key for some seconds to switch it off. The readout unit turns off automatically, if the buttons are not pressed for about 5 minutes. The main screen, visible when the device is turned on, displays the last type of reading used by the operator on the upper line, for example:

4/20mA

Press the ENTER Key 🕊 to make readings according to the type indicated on the top line. 4/20mA While keeping the key pressed, the device displays the values acquired in real time. +12.87mA While releasing the key, the last reading, which was done, remains shown on the display, for example:

Press the **MENU Key** to change the unit's electric reading specifications. > Electrical On the first pressing appears the following screen: Vibrating wire



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Select with the help of the arrow keys UP and DC ments with the vibrating wire or with other types of in to confirm the choice. If you choose the ELECTRIC desired instrument type and press ENTER . In the you can select 4 different types of reading.	struments. Press the ENTER Key AL option, select using the arrows			Volt mV/V	
If required, use the same procedure to set the additional parameters, such as Supply Volt- age and Type of Signal. Selecting +20Volts displays the following screen:			> +20Volts +12/-12Volts		
After selecting, with the arrows, the necessary state	ment keep pressed to read. Selecti	ng TEMP display	s the following e	entries:	
> Single ended Differential		> NTC Pt10	0		
By selecting VIBRATING WIRE, the control unit imm Electrical > Vibrating wire	nediately reads the vibrating wire.		/ibrating wir	B	
The Vibrating wire is read in Frequency (H symbol Hz) or in Digit (B). OVERFLOW COUNTER is a problem in reading the vibrating wire. It may indicate a failure of data transmission or malfunction of the vibrating rope.			Vibrating wire Overflow counter		
 mode, depending on the selected type of the instrume Scroll through the pages with the UP/DOWN Keys 5. BACKLIGHT: Press the ON/OFF Key to tu Warning: it is recommended to use the backlight charge. 6. BATTERY TEST : Press and hold the BATTI charge status. The screen graphically displays the 	Press the ENTER Key to display the device	y. not to preclude .'s B			
value.] 🗆 🗆 +	
- Measur - Supply: - Measur - Operati - Temper - Sensor - Display	ement resolution: ng temperature: ature stability: s supply voltage: LCD:	4-20 mA, V, mV mA V single ended differential mV / V single ended differential PT100 NTC VW 12 Vdc battery; 16 Bit; from -20 to +70 +15 ppm/°C ma +20 V, +/-12 V, 16 x 2 backlight	4 ÷ 20 mA 0 ÷ 100 mV 0 ÷ 5 V 0 ÷ 5 V 0 ÷ 20 mV / V - 50 to +200° Hz 500 to 46 °C; x; +5 V(mV/V);	V °C	
- Battery - Protect - Dimens - Weight:	ions:	IP65; 130 x 100 x 34, 600 gr	2 mm;		



Dichiarazione di Conformita' C E Declaration of Conformity

La società Gei S.r.l. (a S.U.), nella figura del Responsabile dell'Ufficio Tecnico, dopo aver verificato la corrispondenza alle disposizioni delle seguenti Direttive Comunitarie,

Gei S.r.l. (a S.U.), as the Technical Officer, after having checked the correspondence to the provisions of the following Community Directives,

2014/30/UE (Compatibilità Elettromagnetica - *Electromagnetic Compatibility*)

2011/65/CE (RoHS)

e delle norme armonizzate vigenti, con relative revisioni and of the current harmonized standards, with relative revisions

EN 61000-6-2, EN 61000-6-3

Dichiara - States

che il prodotto modello Multigeo (MG01) risulta conforme alle specifiche imposte dalle norme in materia di Direttiva Compatibilità Elettromagnetica, Direttiva Bassa Tensione e Direttiva RoHS.

that the Multigeo (MG01) model product complies with the specifications imposed by the regulations regarding the Electromagnetic Compatibility Directive, the Low Voltage Directive and the RoHS Directive.

Parma, 15/10/2021

Il Responsabile Ufficio Tecnico *The Technical Officer* Ing. Corrado Carini **GEI S.c.L (2.5.U.)**



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