

MP2



TECHNICAL INSTRUCTIONS

Readout unit
Vibrant Wire
Instruments



MP2_ISTR_eng_0.0.5. 21



MP2 is a readout unit for manual readings of vibrating wire instruments (VW). The device allows you to capture the following types of instruments:

- **OHM**= temperature sensors, NTC etc.;
- **Hertz/Digit**= vibrating wire strain gauge instrumentation such as bars, piezometers, etc ..

1. KEYBOARD FEATURES

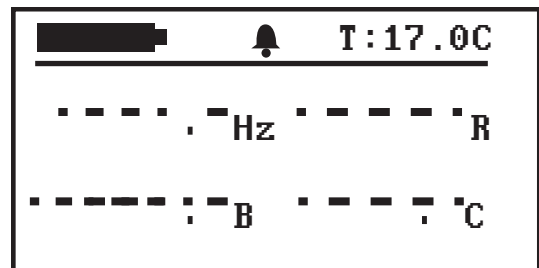


2. ACQUISITION MODE

To turn on and off the device keep press for a few seconds the **ON / OFF button (1)**.

The readout unit shuts off automatically in the case where the buttons are not pressed for a predetermined time.

To read in the **AUTOMATIC ACQUISITION** mode, press for a short time the **ON / OFF button (1)**. The horizontal line present at the base of the display indicates the acquisition status.



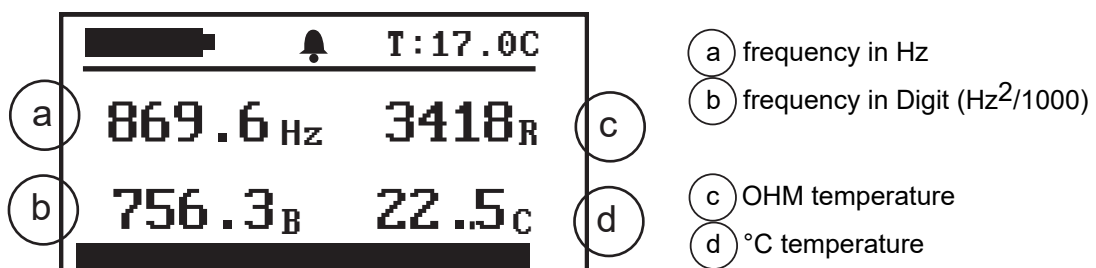
3. DISPLAY

At power up of the readout unit on the display are visible: the state of the device battery, the temperature and two messages that indicate the momentary absence of connection to the instruments.

4. BLACKLIGHT/AUDIO

To activate or deactivate the backlight display, keep press for a few seconds the **BACKLIGHT/AUDIO button (2)**.

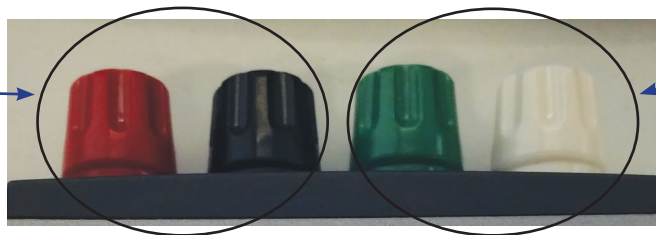
Press a second time to disable the reading. Warning: you may want to use the backlight only when necessary in order not to preclude the duration of the battery charge. Press shortly to activate or deactivate the **AUDIO** mode of the device that plays the sound frequency of the vibrating wire. After the reading will be displayed on the display the following values:



5. WIRING

For the MP2 connection to the instruments follow the instructions below:

Wiring
Vibrating frequency



NTC OHM and °C
Temperature

6. TECHNICAL FEATURES

- Internal supply:	9,6 Vdc 800 mAh Ni-Mh battery;
- External supply:	only battery charge for Ni-Mh Chemistry;
- Current supply:	80 mA;
- Resolution:	0,1 Hz ÷ V.W. / 16 Bit NTC;
- Range:	400÷4800 Hz V.W. / 1000÷39000 Ω NTC;
- Temperature stability:	+15 ppm°/C max;
- Keyboard:	user interface;
- Display:	LCD monochrome 128 x 64 backlight graphical;
- V.W.:	feedback audio;
- Self-test:	battery voltage
- Operating temperature:	from -20 to +70°C;
- Dimensions:	86 x 120 x 37 mm;
- Weight:	360 gr;
- Rating:	IP54.

Dichiarazione di Conformità' CE *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 MP2 risulta conforme alle specifiche imposte dalle norme in materia di Direttiva Compatibilità Elettromagnetica, Direttiva Bassa Tensione e Direttiva RoHS.

that the MP2 model product complies with the specifications imposed by the regulations regarding the Electromagnetic Compatibility Directive, the Low Voltage Directive and the RoHS Directive.

Parma, 30/10/2018

Il Responsabile Ufficio Tecnico
The Technical Officer
Ing. Corrado Carini



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