MRD – Manual read-out device

A read-out device for the manual measurement of a wide range of sensors and for the measurement and data storage for the sliding deformeter and sliding micrometer

Area of application

The MRD is a multifunctional, battery-powered hand-held read-out device which can be used to measure and record a range of different analogue and digital sensors. The sensor is connected via connection terminals or connection sockets. A menu configures the kind of sensor used, displays the connection assignment and triggers the measurement. By entering offset and factor, sensor measurements can be output in physical units such as mm or mWs. These parameters can be configured individually and are assigned to a specialist sensor and saved for subsequent measurement of this sensor.

Various measurement modes

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**Measurement using sliding micrometer and sliding deformeter**

The MRD displays and stores the measurements from the digital sliding micrometer and the analogue and digital sliding deformeter. After the measurement, the measurements taken are transferred to the Trical data analysis program and analysed. An MRD holder which fits to the cable reel is supplied for this application.

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### MRD technical specifications

- **Sensor connection:**
  - 4-way terminal connection for analogue sensors
  - Connector socket A for analogue and digital sensors
  - Connector socket D for data transfer

- **Measurement resolution:** 24 bits (screen display limited to 16 bits)

- **Display:**
  - 4 lines of 16 characters per line with backlight

- **Keypad:** 12 keys

- **Casing:**
  - ABS/dimensions: 21 x 10 x 4 cm/weight: 0.5 kg

- **Power supply:**
  - 4 x 1.5 V batteries (AA), autonomous continuous operation typically 100 hours

- **Communication:**
  - USB 2.0 to PC (for data transfer), RS485 to sensors

Subject to technical changes