
Vector, Hall- effect teslameter

type RX-213

The RX-213 teslameter is a portable Hall instrument for measurement of DC, as well as AC, magnetic field induction component - **simultaneously** along the three mutually orthogonal axes. The AC component is measured at 20 Hz – 20 kHz frequency band pass, as true RMS value, regardless the magnetic field variation in time.

The operating range of the meter amounts 0 – 2000 mT, divided into three subranges, with automatic selection function. The instrument uses an advanced digital signal processing (DSP) technique and a dynamic correction of the results of measurement, in order to ensure better reproducibility and precision of the results. The calibration of the instrument is performed by means of nuclear magnetic resonance (NMR) method.

Technical data

- Measurement modes **DC magnetic field, AC magnetic field (20Hz – 20 kHz, true RMS), Peak Hold, Relative Field**
- Ranges $\pm 20,000$ mT *; $\pm 200,00$ mT ; $\pm 2000,0$ mT for **DC** and $\pm 200,00$ mT for **AC**
- Resolution 0,001 mT * ; 0,01 mT and 0,1 mT
- Accuracy $\pm (0,5 \% + 2$ digits) for **DC** and $\pm (1,5 \% + 3$ digits) for **AC**
- Units Gs, mT
- Ranging automatic
- Probe three-axis; diameter – 5,5 mm, length – 150 mm
- Display LCD, 16 characters x 2 lines
- Display capacity 20 000 units
- Digital interface serial, RS 232
- Sampling rate 5 / sec
- Audible signal of pushbutton action and some functions
- Dynamic correction of measured magnetic field result
- Automatic latching of last used functions after turn off
- Auto-zeroing after turn on
- Auto shut-down after 10 minutes of non-active pushbuttons
- Battery status indicator
- Nonvolatile memory (last 512 results)
- Supply 9 V/15 mA
- Total weight approx. 200 g

* - option

Standard equipment

- standard probe three - axis
- soft case
- manual
- alkaline battery 9 V, 6F22
- MagPro 3.1 software PC software for data acquisition and processing

Optional accessories

- specialized probe customized (for example with 5 T range)
- zero field chamber 40 dB attenuation at 30 mT
- instrument – PC cable 1,5 m (for data transfer)
- AC adapter 12 V / 100 mA
- extension of probe connection cable up to 3,5 m