



Modern, Hall-effect teslameter type RX - 21b

The RX-21b is an efficient, smart, Hall-effect teslameter for measurement of induction of magnetic field. The instrument measures both AC and DC parts of magnetic field and has serial port output for data acquisition.

In order to increase precision and stability of the instrument, the design utilizes advanced digital signal processing, digital filtering as well as temperature measurement with temperature correction and dynamic correction of measured results. Nuclear Magnetic Resonance (NMR) is used for accurate instrument calibration.

Technical data

DC, AC (20 Hz - 25 kHz, true RMS), temperature* Modes of measurement **DC:** \pm 300.00 mT; \pm 3000.0 mT and auto, **AC:** \pm 300.00 mT Ranges Resolution 0.01 mT and 0.1 mT, \pm 0.1 °C * Accuracy ** **DC** - \pm (0.4 % + 2 digits), **AC** - \pm (1.2 % + 3 digits)** Gs, mT, A/m, OC Units manual or automatic Ranging transverse (thickness - 2,2 mm); axial (thickness - 2,6 mm); **Probes** length - 450 mm, flexible LCD, 8 characters x 2 lines Display Display capacity 30 000 units

Display capacity

Digital interface

Additional modes

Sampling rate

Substitute and peak hold

5 /sec

Temperature range * -10 °C to +60 °C; ± 0.1 °C
 Temperature correction of results of measured magnetic field *

- Dynamic probe corrections
- Audible signal of pushbutton action
- Automatic latching of last used functions after turn off
- Auto zeroing after turn on
- Auto shut-down after 10 minutes of non -active pushbuttons
- Analog output (AC mode only) for signal shape viewing
- Battery status indicator
- Nonvolatile memory (last 512 results)

Power supplyTotal weight9 V/12 mAapprox.180 g

option

⁻ with temperature probe correction only

Standard equipment

standard probe axial or transverse

soft case

• alkaline battery 9V, 6F22

manual

MagPro 3.1
 PC software for data acquisition and processing

Optional accessories

additional probe axial or transverse

zero field chamber
 40dB attenuation at 30 mT

 probe with temperature measurement and temperature correction of magnetic field results

PC - teslameter cable
 for two-way data transfer

• extension of probe connection cable (up to 3 m)

AC adapter

• specialized probe (possibility of magnetic field measurement at whole range of 0 - 5 T by means of two arbitrarily selected ranges) axial or transverse.

