

Teslameter FM 205 for AS-active-probes

- High precision
- 3 measuring ranges per probe
- Calibrated probes for μ T-, mT- and T- range
- Display : DC or RMS
- Calibrated Analog output: DC – 100 kHz
- Factory calibration certificate
- Made in Germany



The Teslameter System FM 205 is a handy measuring instrument for all AS-active-probes. It measures magnetic fields within a wide range of applications. This includes alternating fields as well as magnetic steady fields. For AC measurements one can either display the mean (DC) or rms-value (RMS).

After plug in the desired probe one can start to measure immediately without adjustment of zero and scale since the AS-active-probes are calibrated. Therefore replacing probes for every range can be used at every time.

The FM 205 permits the fast adaptation to different measuring tasks by simply plugging in one of the AS-active-probes. Depending on the type of the AS-active-probe one can measure fields from a few nano Tesla to up to 12 Tesla. See our homepage – Teslameter – AS-active-probes: datasheet (pdf).

An additionally feature is the analog output of the device, which can be used for displaying (oscilloscope, chart recorder), measured value capturing (PC) and field control.



Technical Data for Teslameter FM 205 (without AS-active-probes)

Type of measurement	DC / AC / RMS
Ranges	3 ranges per probe see homepage – Teslameter – AS-active-probes: datasheet (pdf) x1, x10, x100
Bandwidth (-3 dB)	DC – 100 kHz (DC) 5 Hz – 100 kHz (AC/RMS)
Adjustable offset	±100 Digit at most sensitive range
Measurement uncertainty:	0.1 % ±2 Digit (DC) (at 25 °C ± 1 °C)
Temperature coefficient	max. 0.01 %/K
Zero drift	max. 3 Digit /10K, typ. 1 Digit /10K (DC) at most sensitive range
Display	3 ½ digit LCD-display
Analog output	±2 V per full scale of range, 50 Ohm, BNC-jack
Operation temperature	5 to +50 °C
Storage temperature	-10 to +50 °C
max. relative humidity	70 % at +35 °C
Power	9 V E-Block 400mAh Battery: 25 h depending on probe type jack for 9 V power supply

included in delivery Teslameter FM 205:

- Teslameter FM 205
- case
- manual
- factory calibration certificate
- replacement battery

included in delivery AS-probe: - in accordance with your choice from AS-probes

option:

- probe extension cord up to 10 m
- 9V AC adaptor

Application Notes

On our website (<http://www.projekt-elektronik.com/applikation.php>) under Application you can find many additional documents with information, hints and examples for measuring of magnetic fields.

Questions?

Do you have any question about a measuring task? Call us, we would be pleased to advice you.

As manufacturer of this system we can fulfill your desires about developing AS-active-probes, changing of measurement range or other needs. Please call us or send us an email.

Gladly we accept your suggestions,

your PE – Team.