

Field detector 2 is a combined instrument for electric and magnetic field measurements. It is designed for quick and easy measurements in different work and home environments. The instrument is equipped with a large and easily read thermometer type LED-display with max-hold indication, making it easy to find different field sources.

FD 2 is a useful tool to study the effects of different actions taken to reduce electric and magnetic fields. The clearly visible display shows the immediate result.

FD 2 can be used for measurements on all kinds of electric equipment that generates low frequency electric and magnetic fields in the VLF-range. It is also suitable for band II measurements according to the Swedish MPR procedure for CRT displays.

FD 2 is based on the same advanced technology as all other Combinova instruments. The microprocessor technology with digital calibration enables the analog electronics to be designed without any adjustable components. This results in high accuracy and longterm stability.



The major features of FD 2 are:

- Easy operation. Push the B- or E-field button and read the result.
- Thermometer type display with max-hold indication.
- 3-axis system for magnetic fields makes measurements independent of direction.
- Electric field measurements with built-in sensor.

FIELD DETECTOR 2



TECHNICAL DATA

| | <u>Magnetic fields B (RMS)</u> | <u>Electric fields E (RMS)</u> |
|--------------------------|---|---|
| Measurement range: | 2,5 nT - 10,5 μ T | 0,25 V/m - 1,05 kV/m |
| Display range: | 4 nT - 10 μ T | 0,4 V/m - 1,0 kV/m |
| Sensor system: | 3 axis coil system X-Y-Z or Y-direction only (selectable) | rectangular (50x20 mm) with ground reference through button or ground cable |
| Measurement frequency: | 2 measurements per second | |
| Frequency range: | 2 - 400 kHz -3dB | |
| Display resolution: | 4 - 12 % (logarithmic scale) | |
| Accuracy: | $\pm 5\%$ at 15-25°C | |
| Temperature coefficient: | less than $\pm 1\%$ / °C (when exceeding 15-25 °C) | |
| Operating temperature: | -10 - +40 °C | |
| Batteries: | 2 x 1.5 V R6 (AA size) Alkaline | |
| Battery life: | approx. 10 hours of measurements | |
| Weight incl. batteries: | 290 grams | |
| Dimensions: | 205x35x70 mm | |

Order number

41-10 FD 1 standard version * with 'Tesla' scale

* Standard version includes batteries, carrying case in leather, ground cable and manual.

Warranty:

Warranty includes material and manufacturing failures within one year from date of delivery.

Calibration:

The FD 1 is computer calibrated during manufacturing. Calibration is stored in an EEPROM.

Also available from Combinova:

Field Detector 1 - measures magnetic and electrical fields in the ELF-range



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Specifications subject to change without notice.