MAGNETIC FIELD MEASURER

MDC1n² is a device for measuring tangential fields.

MDC1n² is made MPI measures, whatever the magnetic fields are: continued, alternate, and intermittent (single, multi-alternate, intermittent by thyristors).
It measures the generated magnetic field. It is equipped with an algorithm which deals with info allowing it to react quickly while posting stable measures.
Il is conform to the electro-magnetic compatibility norms that are applicable to this kind of device in industry.

MDC1n² is easy to use and as light as possible.
It is made of a strenghtened plastic ABS box which gives it a good robustness. A lid gives access to the pile. A foldable tripod allows the user to put the device in front of them for maximum confort when measuring.
MDC1n² can post measures in different unities according to the user's preference.
It is powered by a 9 pile (type 6F22; PP63; 6LR61).
MDC1n² exists with a straight measuring tube.

The value shown is the true effective TRMS one of the field measured. If it is alternate or straighten up, the value is 'R1A' (average value for continued field).

The unity change is done by pressing for 2 seconds on the right button of the backlight.

When measuring a continued field, this pictogram shows the signal is continued:

NB: (A straightend up 2 alternate tripled six phased field is considered as continued).

For other kind of fields (sinusoidal, straightened up 1 or 2 alternations) you will see the following pictogram:





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TECHNICAL CHARACTERISTICS:

Detection characteristics

- Sensor: Sensor with Hall SS495A effect
- Measurement range: +/- 333 A/cm effective for a sinusoidal field or R1A (+/- 470 A/cm continued field)
- Possible unities : A/cm, Oestred, Gauss and mTesla
- Resolution : 0.1 A/cm on 3 figures
- Frequency span from 40 Hz to 410 Hz (TRMS) & continued
- Sampling frequency :10 kHz
- Cooling: 8 Hz

Mechanical and environmental characteristics

- Volume: Dimensions of the box:
  - 120 mm x 65 mm x 22 mm (measuring tube excluded)
- Weight: 180 g pile included
- Box: Strengthened ABS plastic
- Impermeability to humidity and dust : IP 64

Electric characteristics

- Electro-magnetic compatibility: Conform to norms EN 61326 Ed.97 + A1 Ed.98 + A2 Ed.01
- Power: Pile 9 V (PP3/ 6F22 / 6LR61)
- Consumption: 27 mA
- Autonomy:~20 hours (with backlight)

SREM Technologies can provide the calibration certificates or the checking certificates which ensures a tracking up to the national calibrations (COFRAC)





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