

Technisches Merkblatt**DEUTROMETER 3872**

gültig ab / issued :
ab Seriennr. / from serial # :
ab Software-Version / from S/W version :
erstellt / provided:

01. Sep 09
10025

SL

DISPLAY

Display technique LCD graphic-modul 128 x 64 pixel
Display window ca. 48 mm x 24 mm, backlight
Character height 12,5 mm

MEASURING FEATURES

Measured subject Magnetic field strength H resp. induction B (in air)
Measuring unit mT, A/cm, kA/m, Gauss
Measuring Mode DC = Measurement of a steady magnetic direct field, which does not change with time. The direction / polarity of the field is indicated by + or - in the LC-display
AC = root mean square value in an alternating field (True RMS)
Frequenca range for oscillating fields 20 Hz to 500 Hz
Display rate ca. 3 Hz

MEASUREMENT UNCERTAINTY OF GAUGE

Messunsicherheit mit Sonden 3873.1xx $\pm 0,01 \text{ kA/m} \pm 2 \% \text{ DC}$
 $\pm 0,05 \text{ kA/m} \pm 4 \% \text{ AC}$

ADDITIONAL FEATURES

Beeper Confirms limit excess by a specific tone signal
LED Confirms limit excess by a specific tone signal
Keyboard fluorescing lettering

VOLTAGE SUPPLY

Battery operation Two alkali-manganese primary cells or accu. Type AA/IEC R6, 2 x 1.5 V
Battery lifetime (with continous operation on backlight) With batteries (primary-cells): appr. 50 h
With NiMH-Accus: appr. 30 h
Battery capacity indication 4 state battery monitor, auto switch off when battery empty
external Power-supply With USB-cable or Power-Supply

PERMISSIBLE AMBIENT CONDITIONS

Operating temperature 0 °C to +45 °C
Storage temperature (with built-in batteries) 0 °C to +50 °C
Storage temperature (without built-in batteries) -20 °C to +60 °C
Dust and humidity Protective class IP54 (splash-proof)

MECHANICS

Size (H x W x D) 80 mm x 133 mm x 32 mm
Weight 150 g with batteries, 230 g with batteries and rubber-case
Case material ABS (UL-94 HB)
Probe socket 5 pin Lemo 0
Data socket for PC 4 pin Lemo 0

DEUTROMETER PROBES**MEASURING RANGE**

with probes 3873.xxx 0,0 .. 80 kA/m

THERMAL STABILITY

Changing of readings with temperature 0,05 % per K

Specification Probe with 0° or 90° probe head and fixed cable (cable length 1 m)
Measuring principle Hall effect sensor
Weight appr. 45 g

Serial Interface

Online-readings send to RS232 via special cable and protocol