Applicable Regulations and Standards

IEC 61010-1 DIN EN 61010-1 VDE 0411 Part 1	Safety requirements for electrical equipment for measurement, control and laboratory use Part 1: General requirements
EN 61557-1 / -4 / VDE 0413 Part 4	Ohmmeters
EN 60529 VDE 0470-1	Test instruments and test procedures Protection provided by enclosures (IP code)
DIN EN 61326-1 VDE 0843-20-1	Electrical equipment for measurement, control and laboratory use — EMC requirements — Part 1: General requirements

Electrical Safety

Safety class II per IEC 61010-1

3.2 kV Test voltage

Measuring category

Overvoltage protection

reversible by means of semiconductor at

CAT II 600 V, CAT III 300 V

nominal voltages of up to 400 V, from 400 to 500 V with special fuse (can only be replaced at the factory)

Characteristic Values

Auflösung: 0,01 Ω Measuring ranges 10 Ω (Lo-Ω)

100, 2000 Ω Auflösung: 0,1 ... 1 Ω 20, 200, 2000 kΩ Auflösung: 0,01 ... 1 kΩ

±(1.5% rdg. + 4 digits) at 20 °C Accuracy 10 Ω (Lo-Ω)-range: 200 mA Measuring current 100 Ω-Bereich: 20 mA

> 1 µA ... 20 mA further ranges:

Open-circuit voltage > 4 V

Electromagnetic Compatibility (EMC)

Interference emission EN 61326-1:2006 class B

interference immunity EN 61326-1:2006

Display

Digital display LCD, 10 mm high, 31/2 places,

by OL

with background illumination

Overflow indication

Battery status

External voltage

display

indicated by 2 segments on the LCD

for voltages as from approx. 15 V: Alternately, red LED **VOLT** blinks and symbol – U – appears on the LCD. Numerical display of voltage level, in the case of AC voltage, symbol ~ for AC is

additionally shown.

Between 15 V and 400 V an intermittent acoustic signal sounds as a warning signal

Mechanical Design

Housing impact resistant ABS with unbreakable

display cover

Protection housing: IP 65 Dimensions 60 x 230 x 40 mm Weight

180 g (including battery)

Standard Equipment

METRA OHM 413 low-resistance ohmmeter

plug-in measuring cable

9 volt block battery per IEC 6 LR61

operating instructions

Ambient Conditions

20 °C Reference temp.

Storage temperature -10 °C ... +70 °C -10 °C ... +50 °C Operating temp.

Power Supply

Battery 9 volt block battery per IEC 6 LR 61 AlMn.

automatic shutdown after 20 seconds of

inactivity

Battery Saving Circuit

The measuring instrument is switched off automatically if none of the keys are activated for a period of approximately 20 seconds.