

MGFM9000 MULTIMETER LED DISPLAY

INSTRUCTION
MANUAL

SCHRACK
TECHNIK

The MGFM9000 is a multimeter designed to measure current, voltage and frequency in a three phase network, through the connection to current transformers. Five displays allows to represent simultaneously the three currents, one voltage and frequency.

◆ TECHNICAL FEATURES.

- Voltage input: Max.300 VAC phase to neutral.
- Max. 500 V phase to phase.
- Burden: < 1 VA
- Current input: /1 or /5 A.
- Burden: < 0,5 VA
- Rated Current: from 1 to 10.000A/x
- Frequency: 10-100 Hz.
- Accuracy: 0,5% + 2 LSD.
- Aux. supply: 230 VAC ±20%.
- Mounting: Panel board DIN 96x96 mm.
- Display updating: 3s.
- Weight: 0,5 kg.

◆ ENVIRONMENTAL CONDITIONS.

- Storage : -25/70°C, 75% RH.
- Operation: -20/55°C, 85% RH.

◆ SAFETY.

- Do not open the equipment, nor handle it connected to the supply.
- A switch off device must be used in the voltage lines, with automatic disconnection capability. A range from 1 to 10 A could be adequate for this switch.
- Do not disconnect the current transformers without shorting the secondary wires. A relatively high voltage can be produced, and the transformers

can be heated up. It is advisable to provide some way to short circuit the transformers wires before they reach the meter.

◆ PRIMARY NOMINAL CURRENT.

The following current values can be selected:
1,5, 10,15,20, 25, 30, 40, 50, 70, 75,80, 90
100,120,125,150,160,200,250,300,400,500,600,
700, 750, 800,900,
1000,1200,1250,1400,1500,1600,1750,1800,
2000,2200,2250,2400,2500,2750,3000, 3500, 4000,
4500,5000,5500,6000,6500,7000,7500,8000,
9000,10000. (As the display has only four digits, this current is shown as A000).

◆ OPERATION.

The device is provided with four keys. Pressing the U/D key changes the value selected for voltage in the lower line, sequentially from L1-L2-L3-L1-L2-L3-L31.

◆ PROGRAMMING.

Pressing the P key during more than two seconds, the instrument enters in programming mode. In this way the transformers primary current can be changed, pressing UP or DOWN keys. Once the value has been reached, it is stored in memory pressing again P.

◆ CONNECTIONS.

Type: pluggable.
Conductor size: 2,5 mm².
The terminals marked N must be connected altogether.

◆ DIMENSIONS.

Instrument: 96x96x85 mm.
Panel hole: 91x91 mm.

