

Scientific
Education

Technical Training
and Education

Trade



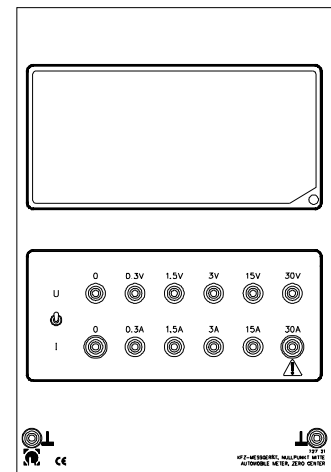
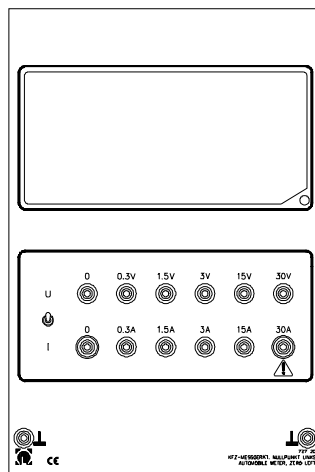
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Instruction sheet

Automobile meter zero-left Automobile meter zero-center

727 20
727 21



Carefully read the instruction sheet before putting the device into operation!

Prescribed use

The measuring instruments are part of the modular training panel system TPS and permit measurements of DC voltages up to 30 V and direct currents up to 30 A.

Location of use

- Operation in dry rooms, which are suitable for experimenting with electrical equipment or installations.
- Operation exclusively in panel frames (in upright position).

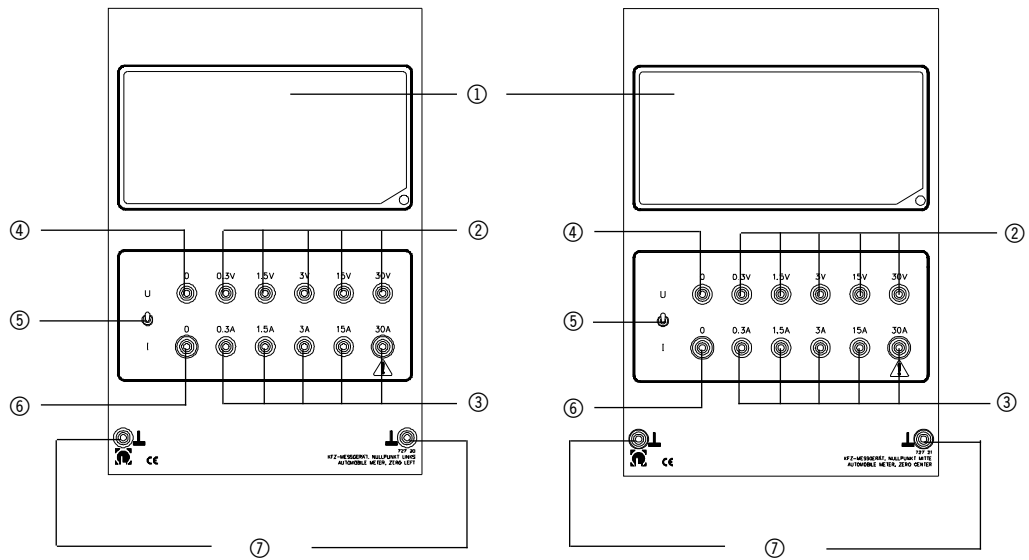
1. Safety instructions

The measurement instrument is designed to comply with safety class III and corresponds to the safety stipulations set forth under EN 61010.

When the device is operated as directed, safe operation is guaranteed. However, safety cannot be guaranteed if the device is operated improperly or handled with the appropriate care.

- Modifications to the experiment setup may only be carried out when the setup is switched off.
- The maximum limiting values of 30 V and 30 A may not be exceeded.
- If you assume that safe operation is no longer possible (e.g. in the case of visible damage), then the device must be switched off immediately and secured to prevent it from being accidentally put back into operation.





2. Description

- ① Movement
- ② Measurement socket "+" for DC voltage
- ③ Measurement socket "+" for DC current
- ④ Measurement socket "-" for DC voltage
- ⑤ Toggle switch for voltage/current measurement
- ⑥ Measurement socket "-" for current
- ⑦ Ground socket

3. Operation

IMPORTANT!

The measuring instrument could be damaged if handled incorrectly!

- Switch off the experiment setup
- Connect the cable into the corresponding measurement socket "-" 4 or 6
- Connect the cable into the corresponding measurement socket "+" 2 or 3
- Set toggle switch 5 for voltage/current measurement
- Switch on experiment setup
- Read off measurement value

4. Technical data

Measurement instrument:	Moving coil instrument, class 1.5
Scale division:	727 20: 0...15 and 0...3 727 21: -15...0...+15 and -3...0...+3
DC voltage range	0.3/1.5/3/15/30 V
DC current range	0.3/1.5/3/15/30 A
Input:	4-mm safety sockets