

EMP 1.3

Quick Connection Device for Electricity Meter Test

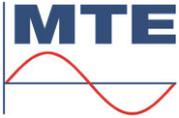


The EMP 1.3 Quick Connection Device is used together with Electricity Meter Test Systems, and is especially recommended for situations where the time factor is of importance. It enables electricity meters to be mounted and connected rapidly for the purpose of their adjustment, test and verification.

Thanks to the universal construction of the EMP 1.3 quick connection device, it may be used for the support and connection of practically all types of electricity meters.

This EMP 1.3 quick connection device can be used with current levels up to 100 A testing, and even with the additional high current adapters up to 120 A.

The EMP 1.3 is completely delivered as a ready to use unit, and may be fixed without any problem to the aluminium structure of MTE Meter Test Equipment meter suspension rack or to their associated trolleys.



Description

Flexible contact fingers are used to make connection to the meter. These carry the currents and the voltage neutral, and they may be moved sideways and fixed in any desired position. The minimum distance between two adjacent contact fingers is 10 mm.

It is also easy to remove or switch the finger positions. This accommodates the unit to the many different meter connection modes in use today - transformer connected arrow, symmetrical / unsymmetrical, etc. The EMP 1.3 can be adapted quickly and with ease.

The contact finger configuration may be changed to correspond to the meter. For example, the fingers can be easily removed to test a single-phase meter on the three-phase EMP 1.3, and later, when the test is completed, the fingers restored for three-phase meter testing.

The quick connection devices are fixed to the suspension rack in exactly the same way as a meter is connected. They are then able to receive the meters which are to be tested.

The elements are mounted on a conducting metal base, and fulfil the existing regulations for meter insulation testing.

Options

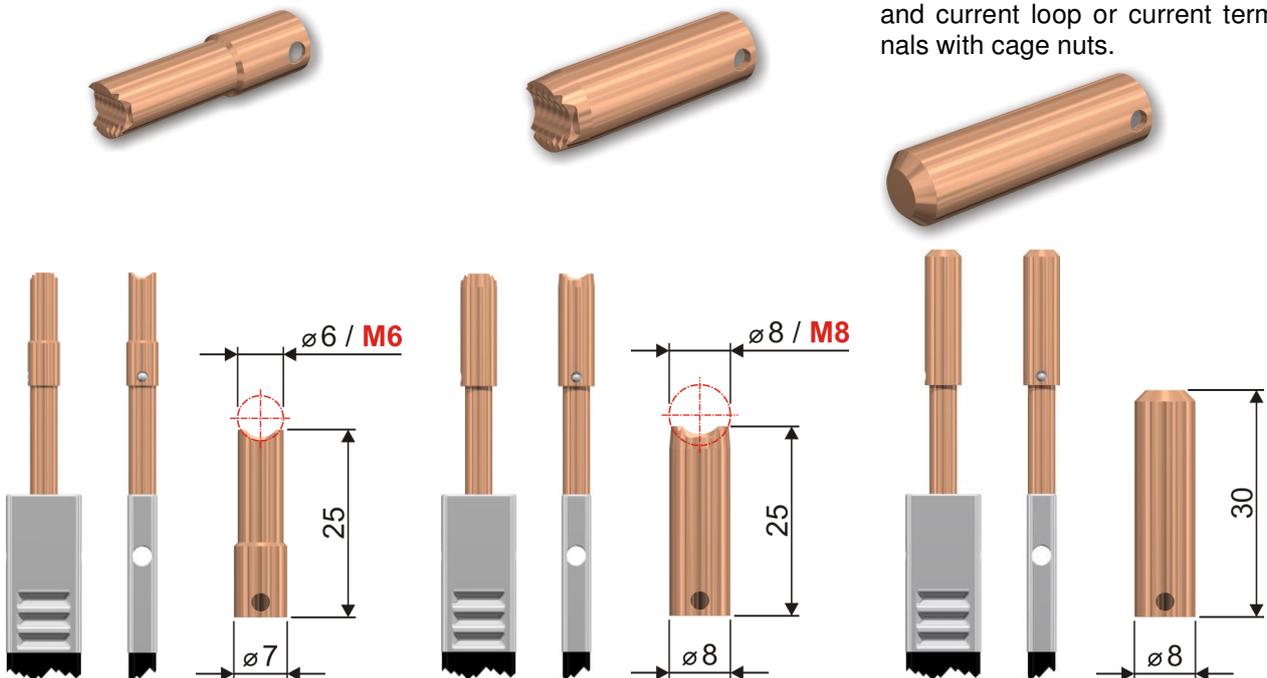
1) Screw Adapters for currents up to 120 A

The quick connector unit may be used with currents of up to 120 A (for a maximum of 10 minutes per hour) by utilization of a high current screw adapter. The screw adapters may be simply fixed to the current connector and just as easily removed after use. They are available in several versions:

Screw adapter M6 for fix built in current connection terminals with M6 threads.

Screw adapter M8 for fix built in current connection terminals with M8 threads.

Screw adapter for special current connections like loosely connection between current terminals and current loop or current terminals with cage nuts.

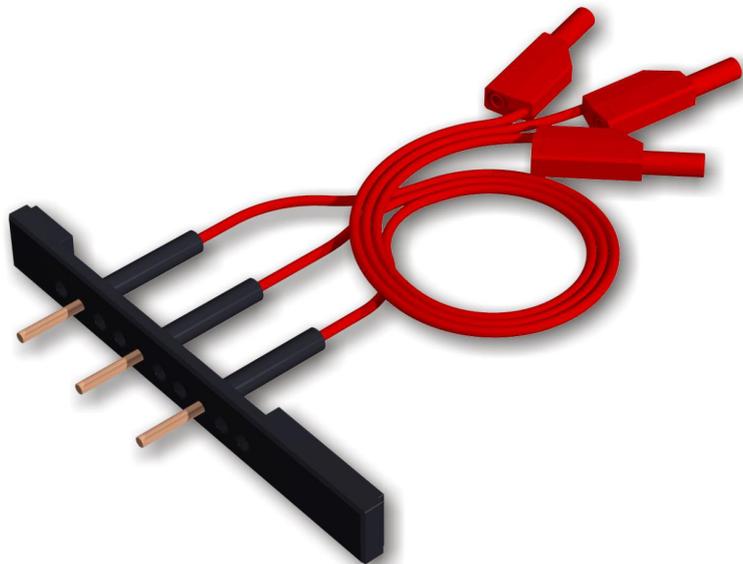




2) Voltage contacts for ZMB-meters

The voltage connectors are used for quick connection of the voltage to ZMB meters as manufactured by Landis + Gyr AG. They effectively and substantially reduce the meter mounting time in the production department.

The contacts are assembled as a complete unit, which makes it easy to handle and prevents an accidental transposition of the individual phases. The feed wiring is available in different colors.



3) Voltage contacts for transformer meters

The voltage contacts for transformer meters may be connected to the quick connection device without difficulty, and just as easily removed when this is required.

In this way, the voltage as well as the current will be automatically connected to the meter.



4) Meter Template

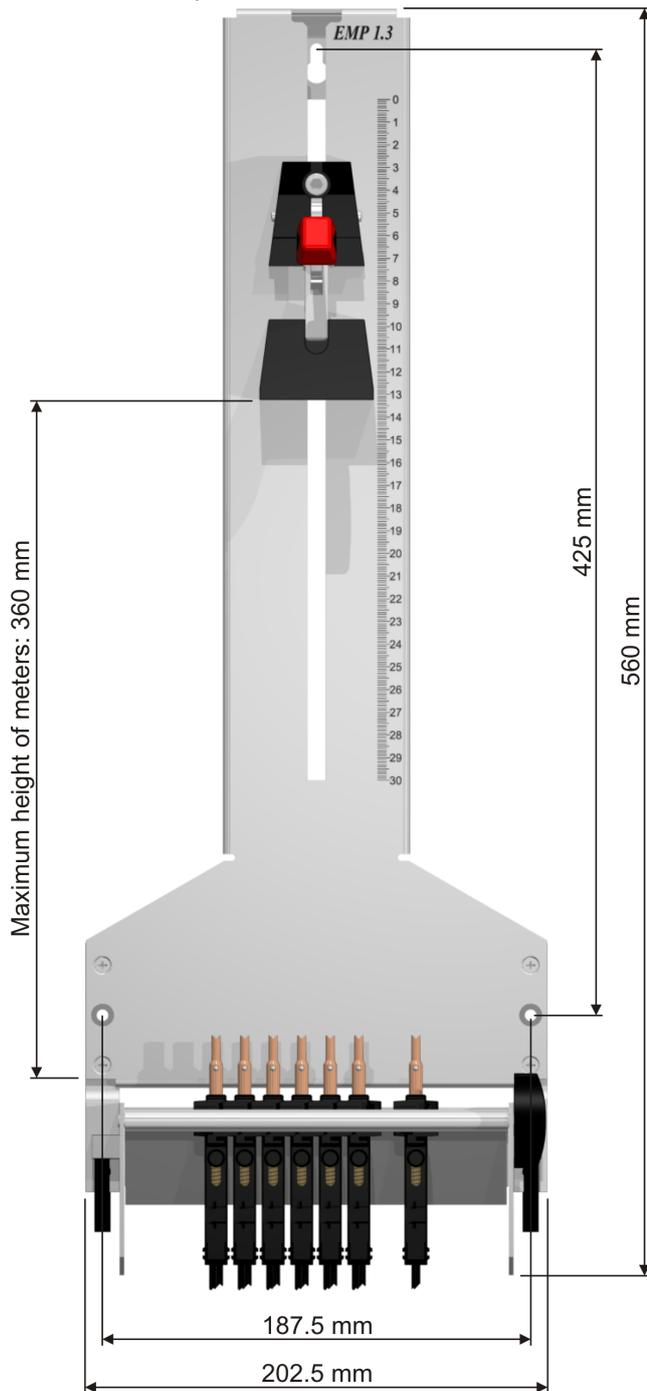
Templates may be used to quickly and simply adjust the quick connection device to the various types of meter. They may be used for the usual models, and as well as for connections using the high current screw adapters.

It is also possible to manufacture templates to specific customer requirements, as, for example, when there are limited numbers of meters to be tested. This will provide optimal connection possibilities when there is a large selection of different meters in the customer meter park.

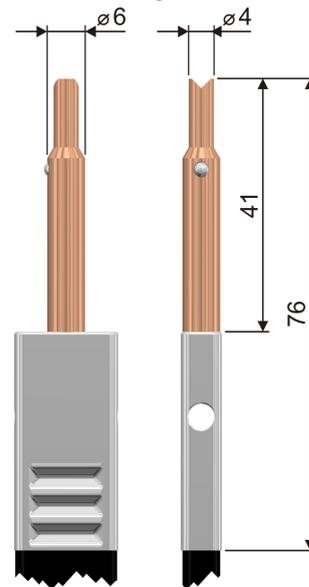
Technical Data

Mechanical

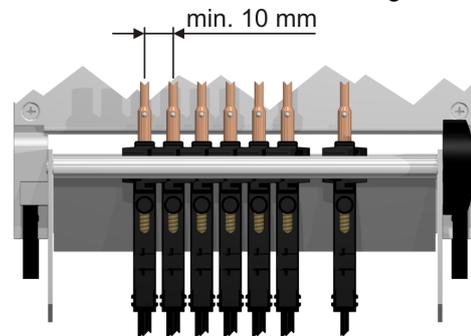
Dimensions of quick connection device EMP 1.3:



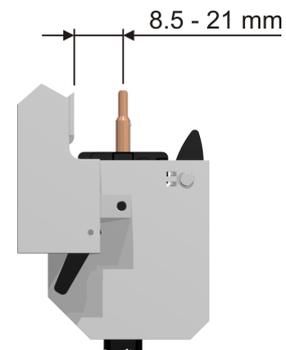
Dimensions of current fingers:



Minimum distance between current fingers:



Possible adjustment between base plate and current fingers:



Weight:

approx. 2.0 kg (without cables)

Electrical

Standard version

Continuous current: 80 A max.

Maximum current: 100 A max. 10 min. / h

Voltage: 3x40 V / 70 V to
3x320 V / 555 V

Test voltage: 4000 VAC max. 60s

Version with option 1) Screw adapters

Continuous current: 100 A max.

Maximum current: 120 A max. 10 min. / h

Voltage: 3x40 V / 70 V to
3x320 V / 555 V

Test voltage: 4000 VAC max. 60s