

PTS 3.3

Three-phase, fully automatic test system with class 0.05 reference standard and integrated three-phase current and voltage source



The PTS 3.3 portable test system consists of an integrated three-phase current and voltage source and a three-phase electronic reference standard of accuracy class 0.05%. Characteristic features of the PTS 3.3 are its wide measuring range, high accuracy and high tolerance to unwanted external influences.

The PTS 3.3 allows the monitoring of meter installations as well as analysis of the local mains conditions.

Advantages

- Easy verification of meters under precise load conditions, using the built-in, compact current and voltage sources
- Automatic operation using predefined load points without the need for an external PC
- Internal memory for storage of measurement results and customer data
- Displays of vector diagram and phase sequence for analysis of the supply conditions
- User-friendly system for data input and operation of source and reference meter
- The system may be used either as a stand-alone reference standard meter, or together with the integrated power source

Functions

- Independent generation of single or three-phase current loading conditions for verification of meters
- Active, reactive and apparent energy measurement for three-phase 3 or 4 wire systems with integrated error calculator and pulse output
- Voltage measurement
- Current measurement directly or with clip-on CT's
- Power measurement per phase and combined phases
- Phase angle, power factor and frequency measurement

Uses

- On site meter measurements
- Verification of energy registration
- Verification of the circuit load conditions

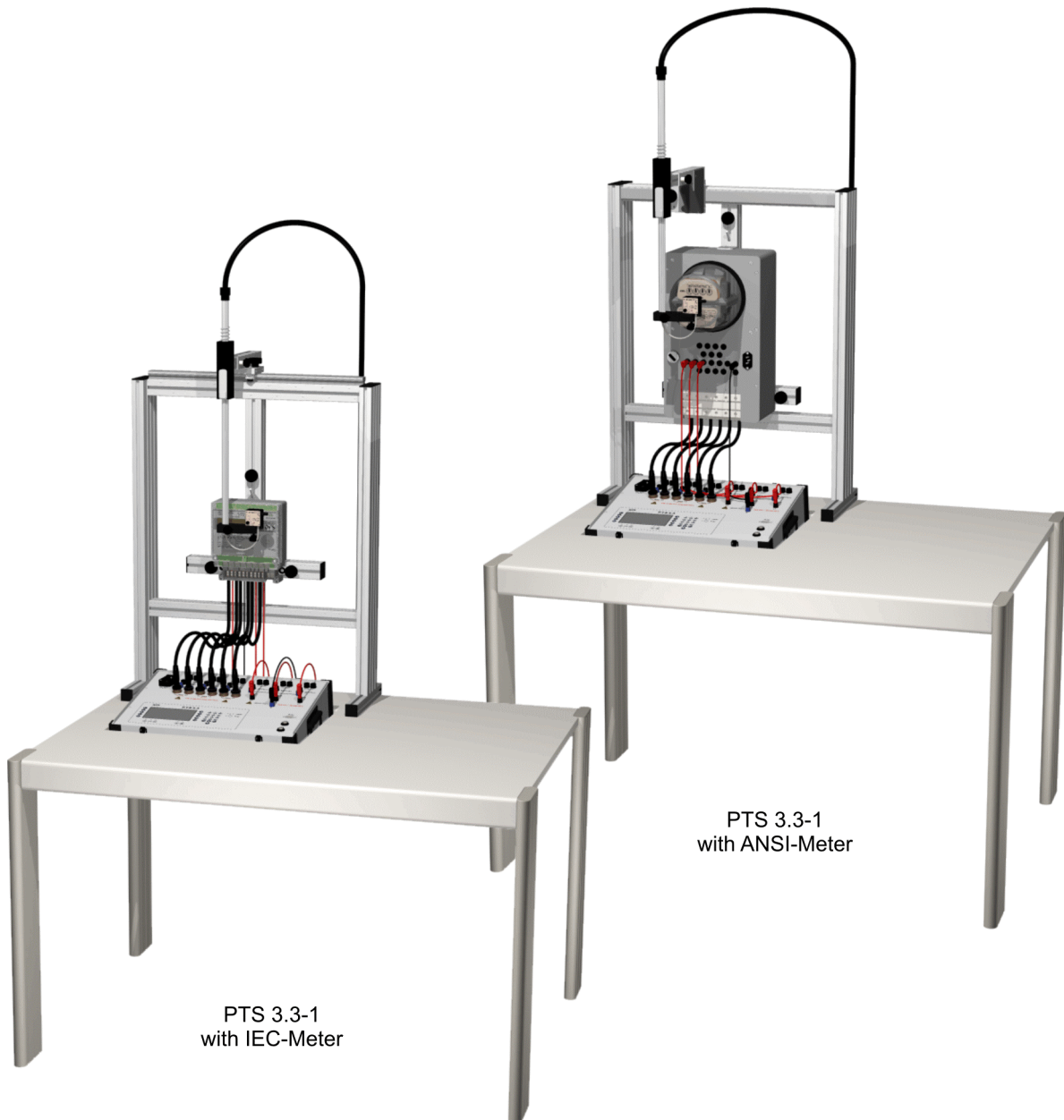
Options

- Software CAMCAL for Windows or CALSOFT II
- Error compensated clip-on CT's up to 100 A

Static System Type PTS 3.3-1

The static system type PTS 3.3-1 allows the automatic testing of a single meter, without the need for an additional personal computer. The system includes the following modules:

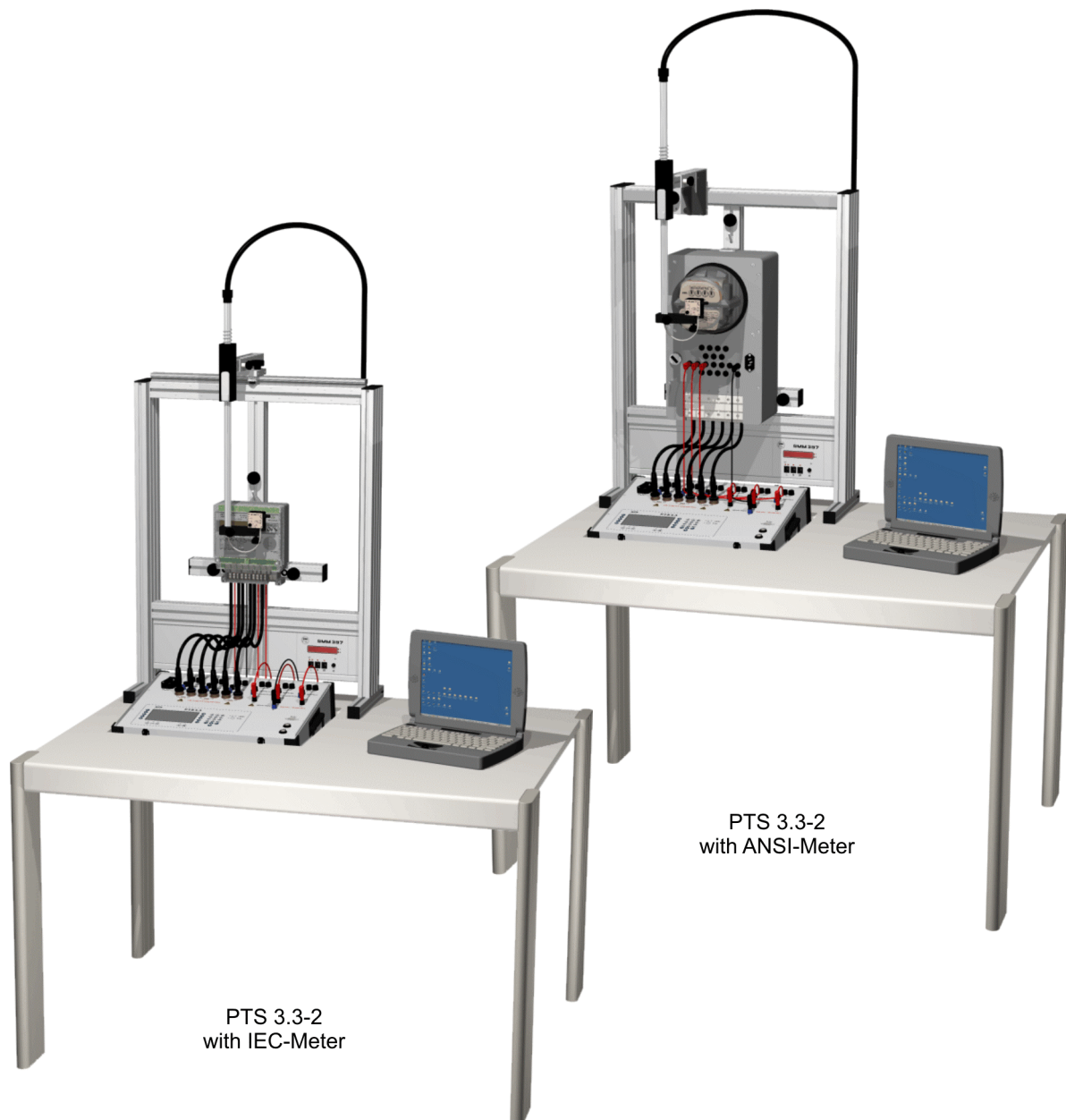
- Test system type PTS 3.3 integrated into the test rack
- Meter suspension rack for accommodation of one meter. The fixing devices allow simple and fast mounting of the meter under test
- Scanning head type SH 2003 with fixing device type SHC 1, allowing lateral adjustment, for testing of Ferraris or electronic meters. The scanning head is adjustable in depth and height as required to align with all normal configurations of meters
- The PTS 3.3-1 is supplied with integrated software, allowing automatic measuring runs with predefined load points to be carried out



Static System Type PTS 3.3-2 with evaluation unit and personal computer

The static system type PTS 3.3-2 allows the testing of a single, complex, multifunction meter fully automatically. The system includes the following modules:

- Test system type PTS 3.3 integrated into the test rack
- Meter suspension rack for accommodation of one meter. The fixing devices allow simple and fast mounting of the meter under test
- Scanning head type SH 2003 with fixing device type SHC 1, allowing lateral adjustment, for testing of Ferraris or electronic meters. The scanning head is adjustable in depth and height as required to align with all normal configurations of meters
- SMM 397 measuring module for meter error display, input for output contact testing and a serial interface for tariff device communication
- "CAMCAL for Windows" software on personal computer provides fully automatic measuring test runs with complete test results, certificate and statistical information for quality evaluation of tested meters



Options

- Personal computer and printer
- Quick connector device QCD, EMP 1.3 or Universal socket adapter, which allows fast connection of meter measuring circuits
- "CAMCAL for Windows" software module for tariff device communication in accordance with IEC 1107