

## PWS 2.3

Three-phase Portable Working Standard for testing electricity meters



The PWS 2.3 Portable Working Standard is a three-phase portable electronic meter test unit, for use as a working standard to test both single and three-phase electricity meters on site. This device allows checking of all meter installation parameters and associated circuits. The PWS 2.3 is available in accuracy classes 0.1 or 0.2.

The unit can be used either with a direct connection in the range of 1 mA ... 12 A, or via split core transformers (current clamps) in the range of 10 mA ... 100 A. It is therefore possible to easily and accurately measure both CT and direct connected meters.

The unit can be powered either from the measuring circuit or from an auxiliary single-phase supply.

### Advantages

- Precision test equipment for AC values in the 45 Hz to 66 Hz frequency range
- Wide measuring range with auto ranging
- Display of vector diagram for analysis of mains conditions and meter connections
- Measurements of wave forms and harmonics with display
- Easy detection of circuit connection faults

- Data memory
- Small dimensions and light in weight
- Serial interface for data transfer (RS 232)

### Functions

- Active, reactive and apparent energy measurement for single-phase and three-phase, 3- or 4-wire circuits with integrated error calculator
- Impulse output for energy (galvanic isolated)
- Registration of active, reactive and apparent energy for register testing
- Active, reactive and apparent power measurements
- Current and voltage measurements
- Power factor measurements
- Frequency measurements
- Voltage sequence indication ( $U_1$ ,  $U_2$ ,  $U_3$ )

### Application

- On-site test of electricity meters

### Options

- Scanning head (SH 2003) with scanning head carriage
- CALSOFT I read out software for transfer and presentation of data