



Features : -

- 3-phase portable reference standard should be designed for
 - On-site and laboratory testing of CT operated and whole current electricity meters
 - checking operating burden of PTs and CTs
 - Checking CTs and PTs (transformer ratio, transformer error, phase angle between primary and secondary current and voltage)
 - upgrading existing meter test systems
 - Testing other substandard meters
 - fully automatic tests in combination with power sources
 - Calibration: - the system should be capable of self-recalibration facility.

Technical Specification :-

Auxiliary supply input	86 V _{AC} ... 264 V _{AC} , 47 Hz ... 65 Hz
Power consumption	Not more than 40 VA
Measurement modes	- 3 wire / 4 wire - active / reactive true/reactive cross-connected/apparent - total/per phase
Housing	Hard plastic
Dimensions	TBD by manufacturer
Weight	TBD by manufacturer
ambient temperature	-20°C ... +60° C
Storage temperature	-20°C ... +60° C
Protection degree acc. IEC 60529:2-2001	IP 68 (housing closed) IP 40 (housing open)
Isolation protection acc. EN61010-1:2002	Yes
Type test certification	Consulate Europe, KEMA, UL or equivalent int. Lab (meter testing instrument should be certified by one of the above international Labs.)
Test voltage range Error (voltage)	0.04 V ... 480 V (phase-neutral) <0.05 % related to reading

Note: Specifications are subject to change, Photos shown above are Indicative, Actual Product can Vary.



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Error (current)	up to 3000 A (flexible CTs type FLEX 3000) <0.2 % for clamp-on CTs 100 A (I > 500 mA)
Connection of Highvoltage and high current sensors for primary tests in high voltage networks (Option)	Yes
Auto ranging of voltage and current	Yes
Test frequency range	45 Hz ... 66 Hz
Error (in direct mode) Active / Reactive / Apparent power/energy	< 0.05% (0.04 A ... 120 A)* * related to apparent power
Calibration	Instrument should have 3 power proportional pulse outputs with high nominal frequency (at least 10 kHz), so that the user is able to calibrate the instrument without any waiting time. These pulse outputs should be free programmable including definition of the pulse output constant. It should allow setting output frequencies proportional to total active, reactive and apparent power and to power per phase.
Self test function	Software should support quick check of the accuracy. After serial/parallel connection of the current resp. voltage phases, deviations between the phases should be calculated and displayed
Functions	<ul style="list-style-type: none"> ■ Statistical error evaluation including average error and standard deviation ■ Input for three scanning heads, three pulse cables or combination of scanning head and pulse cable ■ Simultaneous displaying of 3 phase actual values (Voltage, current, active/reactive/apparent power, power factor, phase angle, frequency) ■ Dial test of 3 registers in parallel ■ Registration of the average power for maximum demand test ■ Harmonic analysis up to the 31st harmonic for voltage, current, active, reactive and apparent

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