

**Technical Specification of Three Phase Electric Meter  
Burden & Puncture Test Bench**

**1.0 APPLICABLE STANDARDS**

The equipment and the components supplied with the equipment shall be in accordance with the latest editions and or amendments of the standards specified below following the relevant IEC Standards. However, the specific requirements mentioned below shall also prevail.

The equipment shall meet the requirement for the burden and aging tests of three phase digital electric watt-hour meters and shall have counting control board designed for power supply system's watt-hour measurement functions and to perform after-calculation counting and aging test on the meter for a minimum of 48 meter points.

The control board of the bench shall be equipped with voltage meter, ammeter, phase meter and other indicating instruments as required by the international standard and practices. It should be used safely and having a gentle appearance, simple and easy to operate.

**Key technical parameters:**

1. Input power source: ~50Hz, 3×220 Volts AC ± 10%
2. Operating environment: Temperature 25<sup>0</sup>C ± 5<sup>0</sup> C; Relative humidity 75% ± 15%
3. Output voltage: 3×220 Volts AC / 400 Volts AC, adjustment range: 0-120%
4. Output current: 3×40A/20A/10A/5A/1A, adjustment range: 0-120%
5. Waveform distortion: both voltage and current waveforms: not larger than 5%
6. Hanger carrier and watt-hour meter's power supply is aluminum alloy structured. Each meter hanger carrier can be hung with meters on both of its two sides, having minimum of 3 (three) rows each side, 8 (eight) meters each row.
7. Indicating instrument - voltage meter/ammeter/power meter (phase meter)
8. Output phase adopts phase shifter for phase shifting purposes which can be adjusted easily and conveniently.
9. Master meter pulse counting and timer counting functions shall be available.
10. Over-output-voltage protection and output counting resetting shall be available.
11. Input power supply: 3×220 Volts AC, ±10%, 50Hz; having maximum power consumption for counting test shall be within: 3500 VA.