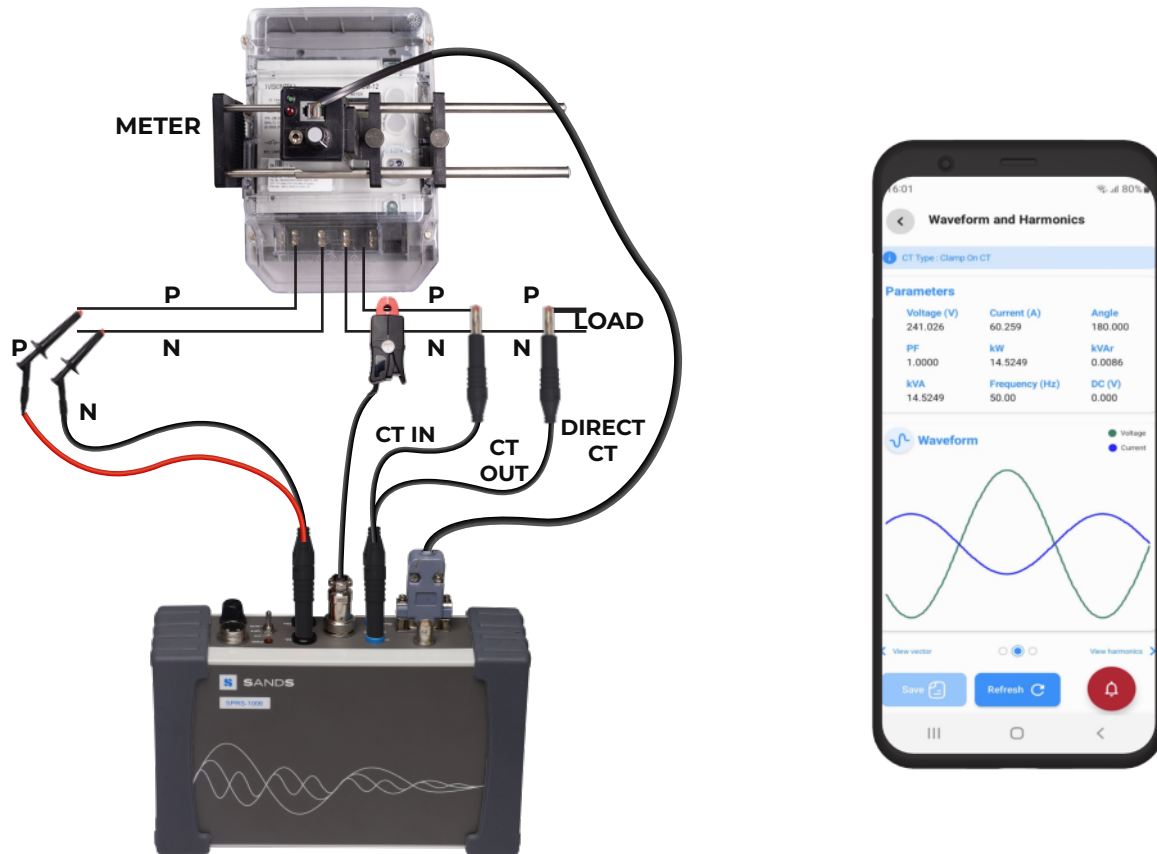


SINGLE PHASE REFERENCE METER



The Single-Phase Portable Reference Standard (SPRS) is a compact meter test equipment designed to calibrate the error in single-phase energy meters. It uses clamp-on mode and supports both static and electro-mechanical meters. The SPRS can measure voltage, current, energy, phase angle, and more for the meter under test (MUT). The base unit and wireless display communicate via Bluetooth for easy and safe operation. Additionally, it can be connected to a PC for analysis and has the capacity to store 2000 test results.

FEATURES

- Current range up to 60 A
- Accuracy class 0.2S
- Automatic error computation
- 2000 test results storage facility
- THD% of Voltage & Current upto 51st Harmonics
- Data transfer to PC through USB
- LED/Frequency output for Primary calibration
- Powered by measuring circuit
- Automatic Dial test using optical port for DLMS meter
- Optical sensor for electro mechanical & electronic meters

ACCESSORIES

- Clamp on CT with cable
- Cable for Direct CT
- Cable for field & laboratory use
- Scanner with stand
- Snap switch for Manual operation
- Base computer software
- Portable Printer (Optional)

TECHNICAL SPECIFICATION

ELECTRICAL

Voltage	240V \pm 30%
Current	100 mA to 10Amps-Direct CT 200 mA to 60A -clamp-on CT
Frequency	50Hz \pm 5%
Voltage burden	Less than 8VA
Current burden	Less than 1VA
Power factor	Zero lag – Unity – Zero lead

ACCURACY

Direct CT	0.2S
Clamp-no CT	0.2S

DISPLAY

Enriched wireless graphical colour display with touch interface for easy operation.

DISPLAY RESOLUTION & PARAMETERS

Voltage	0.01
Current	0.001
Power factor	0.001
Frequency	0.001
Energy	0.0001
Error percentage	0.01%

OPTICAL SCANNER

LED pulse for electronic meters

Rotor mark for electromechanical meters

MECHANICAL

Dimension	Not exceeding 200 mm* 130 mm* 68.5mm
Weight	less than 1Kg
Enclosure	High strength moulded ABS

ENVIRONMENTAL SPECIFICATION

Operating Temp range	-10 C to 50 C
Storage Temp range	-25 C to 70 C
Relative humidity	95% non condensing
Degree of Protection	IP 52

MEMORY

2000 test results along with meters and consumer information

COMMUNICATIONS

USB/Wi-Fi

STANDARDS

IEC 60687

IS 12346

IS 14697

Click the below link to explore other variants:

<https://www.sandsindia.com/portable-reference-standard-meter/>

BASE COMPUTER SOFTWARE

WIRELESS DATA TRANSFER



TEST REPORT

Consumer Name	SANDS	Consumer ID	S
Consumer Address	Chennai	Consumer No	03449892
Meter Number	3001000	Meter Make	LAT
Meter Type	LT-4WC(1P-2W)	Meter Class	1
Meter Constant	6400.000 Imp/kWh		
CT Type	Clamp On CT	Meter Test Mode	Key Touch
No of Pulses	23	Current Range	Auto
Parameters			
Voltage (V)	241.080	WATT Energy kWh	0.903120
Current (A)	2.602	Reference kWh	0.903203
Power Factor (PF)	-1.0000	Reference kWh	0.903029
Power Active (kW)	0.8417	Reference kWh	0.903203
Power Reactive (kVar)	-0.0099	Error kWh (%)	-2.398
Power Apparent (kVA)	0.8417	Remarks:	
Frequency (Hz)	49.94		
PF (during Test)	-1.0000		
VTHD (%)	4.620		
ITHD (%)	4.295		
Latitude	12.825048	Longitude	80.218716
Test Date	12/12/2024	Test Start Time	17:23:17
Duration of Test	00:00:19	Test Stop Time	17:23:36
Calibration Date	05/05/2024	Over Date	06/05/2024
SPMS Serial Number	2412DA27860	Test Engineer	Adnan
Signature of the Customer			

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