

Technical Specifications

P20

Three-Phase Bidirectional Load



Presentation

The **Three-Phase Bidirectional Load P20** is a **portable**, seven-wire equipment used to checking the operation and testing electric power meters installed in service ports of consumer units.

It was developed by **PRIMATA ELETRÔNICA** with the objective of simplifying the field tests and trials carried out by the power distribution companies in **single-phase**, **two-phase and three-phase meters**, when there is no customer consumption (no load) or when the load is very low, in the **direct and/or reverse energy** directions.



Applications

- ✓ Verification of the functioning of electric energy meters, including tests in the direct and/or reverse energy directions;
- ✓ Fixed load tests for meter activation, seeking to identify defects or frauds (in this case it is used as a load in conjunction with other deviation analyzers¹, not supplied with this equipment);



¹ For this application, check the equipment P80 – Portable Standard Energy Meter Test Equipment (Wireless Transmission).

Benefits

- ✓ Safety in the installation of the load for quick testing of the meters;
- ✓ Supplied with 1.5m flexible cable (2.5 mm²) with protected 4mm banana plug, and sets of detachable **Dolphin Clips (CAT III 1000V ou CAT IV 600V)**;
- ✓ Independent On/Off pushbutton and protections for each phase;
- ✓ On/Off pushbutton with power selection (min. and max.);
- ✓ Pushbutton with energy direction selection (consume or inject);
- ✓ Status indicator;
- ✓ Overvoltage-protection board, protection against overcurrent and incorrect installation with fuses of 0,5A for overvoltage-protection board and 30A for power board;
- ✓ No external temperature variation;
- Case and Handle for manipulation and transport;
- √ 1 year factory warranty;

Technical Features

Supply Voltage (Neutral/Phase)	100 to 240 Volts ±10%	
Nominal Frequency	60Hz	
Status Indicator	Yes	
Overvoltage-protection Board	Yes	
Power Selection (Minimum and Maximum)	Yes	
Energy Direction Selection (Consume or Inject)	Yes	
Overvoltage-protection Board Fuse	0.5A	
Power Board Fuse	30A (ceramic)	
Weight	5.2 kg	
Dimensions	150 x 210 x 290 mm	
Level of protection	IP52	

Approximate Power Ranges¹

Voltage (V)	Power Switch	Power (W)	Current (A)	Consumption (VA)
127	Minimum	500	4	2,8
	Maximum	1.000	8	10
220	Minimum	1.700	8	10
	Maximum	3.500	16	30

¹ The minimum and maximum powers can vary up to 20% depending on the conditions of the electrical contact and connectors used.



Contact us:

Tel.: +55 (41) 3223-2176

Rua Visconde de Nácar, 288, Centro Curitiba - PR - 80410-200

www.primataeletronica.com.br



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