

Single phase Power Calibrators

The C250 Series Power Calibrators are used for effective adjusting and testing of measuring instruments used in power engineering: active and reactive power meters, phase meters, frequency meters, ammeters, voltmeters, transducers of these quantities in single phase configurations.

The C250 Calibrator is single phase source of alternating current and voltage. Enables generating alternating voltages with predefined value 240V, alternating currents with predefined values 10A and 20A, frequency with predefined value 50Hz and phase shift with predefined values 0° and 60°.

Current output signals and phase shift values are selecting by push-button in local control mode. Actual values of output voltage and current signals, power factor and frequency are simultaneously indicated on LCD display in the C250M Calibrator with additional meter.

In remote control mode current, phase shift, operate/standby mode for voltage and current output can be selected by means of external potential free push buttons connected to terminals on rear panel or by standard interface RS232C/USB from PC computers.

Instruments under test can safely be connected to the outputs without changing the set values, since the calibrator can be switched to "standby" mode to isolate the output terminals.

Series C250 Calibrators has been built in small size and light weight aluminium case.



C250 single phase source up to 20A and 240V



C250M single phase source up to 20A and 240V with additional meter.

C250 Series single phase Power Calibrators

- Voltage source with 240V fixed value
- Current source with 10A and 20A selected fixed values
- Frequency 50Hz fixed value
- Phase shift 0° and 60° selected fixed values
- Interface RS232C/USB and terminals for external buttons
- Small size and light weight

TECHNICAL PARAMETERS OF OPTIONS C250 and C250M

Parameter		Settings	Measurement resolution	Accuracy	Maximum Load
Calibrator function	Voltage	240V		±0.10% of value	125mA
	Current	10A and 20A		±0.10% of value	2V@20A
	Frequency	50Hz		±0.02Hz	
	Phase shift	0° and 60°		±0.1°	
	Active power			±0.10% of apparent power	
Meter function only in the C250M	Voltage		0.01V	±0.10% of value	
	Current		0.001A	±0.10% of value	
	Frequency		0.01Hz	±0.02Hz	
	Power factor		0.01	±0.01	
THD of voltage and current				0.5% of value	
Weight and dimensions (width x height x depth)				12kg and (371x150x342)mm	
Power supply				230V±10% / 45...65Hz / 180VA	

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