



- Voltage source up to 420 V
- Current source up to 20 A (100A)
- Frequency range 45,00... 52,50 Hz
- Phase shift range 0... $\pm 90^\circ$

The **C200 Series Power Calibrators** are used for adjusting, checking and verification of measuring instruments used in power engineering: active and reactive power meters, phase meters, frequency meters, ammeters, voltmeters, transducers of these quantities, monitoring systems and frequency, voltage and current relays in single and three phase symmetrical and asymmetrical configurations for symmetrical and asymmetrical loads.

The C200 Calibrator is single phase and the C233 Calibrator is three phase source of alternating current and voltage. Enables generating alternating voltages up to 420V in four subranges 57-110-220-380V, alternating currents up to 20A (100A) in three (four) subranges 1-5-20-100A, frequency in range 45,00...52,50Hz (up to 70,00Hz in special option) and phase shift in range -90,0...0,00...+90,0°.







Voltage and current output signals are set by multi-turn potentiometers and are simultaneously indicated on 4,5 digit LED displays. Frequency and phase shift

are also set by multi-turn potentiometers and are displayed on 4 digit LED displays too.

Sinusoidal signals are generated on both voltage and current outputs. If required, between 1% and 15% harmonic distortion can be added to the signals. Distortion spectrum complains rectangular wave with triple frequency added to main signal.

Instruments to be calibrated 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 C200 Calibrators has been built in standard 19" aluminium case. The C233 Calibrator is constructed in three cases and consists of one calibrator basic configuration (phase L1) and two calibrators in special configuration (phase L2 and phase L3).

 <p>C200B single phase source up to 100A</p>  <p>C200 single phase source up to 20A</p>	 <p>C233C three phase asymmetrical source up to 20A</p>  <p>C233BC three phase asymmetrical source up to 100A</p>
 <p>C233 three phase symmetrical source up to 20A</p>  <p>C233B three phase symmetrical source up to 100A</p>	

Technical specification

PARAMETERS OF OPTIONS C 200 AND C 200B

Parameter	Range	Settings range	Resolution	Accuracy	Maximum Load
Voltage	57V	0,50...60,00V	0,01V	±0,05% of set value ±3 digits	250mA@60V
	110V	1,00...130,00V	0,01V		136mA@130V
	220V	2,0...250,0V	0,1V		68mA@250V
	380V	3,0...420,0V	0,1V		39mA@420V
Current	1A	0,0100...1,3000A	0,0001A	±0,05% of set value ±3 digits	12V@1,3A
	5A	0,050...6,000A	0,001A		3V@6A
	20A	0,200...19,999A	0,001A		1V@20A 2V@20A**)
	100A**)	1,00...100,00A	0,01A	±0,1% of set value ±3 digits	0,7V@50A 0,3V@100A
Frequency		45,00...52,50Hz	0,01Hz	±0,02Hz	
Phase shift		0,0...±90,0°	0,1°	±0,5° *)	
THD of voltage and current			0,5% of set value		
Weight and dimensions (with x height x depth)			14kg and (478x194x342)mm		
Power supply			230V±10% / 45...65Hz / 130VA (200VA for C200B)		

*) for settings greater then 10% of voltage and current range

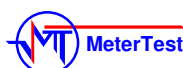
***) C200B option with additional 100A range

PARAMETERS OF OPTIONS C 233 AND C 233B

Parameter	Range	Settings range	Resolution	Accuracy	Maximum Load
Voltage	57V	0,50...60,00V	0,01V	±0,05% of set value ±3 digits	250mA@60V
	110V	1,00...130,00V	0,01V		136mA@130V
	220V	2,0...250,0V	0,1V		68mA@250V
	380V	3,0...420,0V	0,1V		39mA@420V
Current	1A	0,0100...1,3000A	0,0001A	±0,05% of set value ±3 digits	12V@1,3A
	5A	0,050...6,000A	0,001A		3V@6A
	20A	0,200...19,999A	0,001A		1V@20A 2V@20A**)
	100A**)	1,00...100,00A	0,01A	±0,1% of set value ±3 digits	0,7V@50A 0,3V@100A
Frequency		45,00...52,50Hz	0,01Hz	±0,02Hz	
Phase shift		0,0...±90,0°	0,1°	±0,5° *)	
Phase shift between voltages		120,0°	0,1°	±1,0° *)	
THD of voltage and current			0,5% of set value		
Weight and dimensions (with x height x depth)			3x14kg and 3x(478x194x342)mm		
Power supply			230V±10% / 45...65Hz / 130VA (200VA for C233B)		

*) for setting greater then 10% of voltage and current range

***) C233B option with additional 100A range



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Having in mind the care about continuous improvement of the product operational qualities, the producer reserves the right to introduce possible modifications in the construction and workmanship. That is why some of the dimensions, drawings, parameters or descriptions may differ from these shown in this catalogue.

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