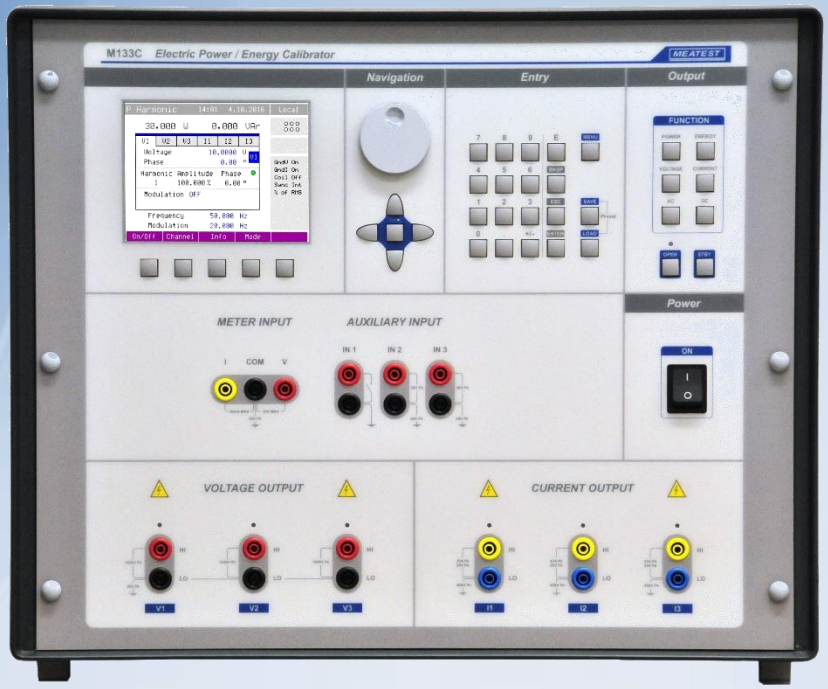


M133C Series

Electrical Power / Energy Calibrators

MEATEST

Main features

- ✓ All-in-one solution for calibration of voltage, current, power and energy meters or power quality analysers
- ✓ Three phases in a single instrument
- ✓ Floating current outputs for meters with joint terminals
- ✓ Built-in process multimeter
- ✓ High accuracy (power from 0.044%) and flexibility
- ✓ IEEE488 / RS232 / Ethernet remote control

Application

Energy meter calibration
Automatic deviation calculation using energy meter pulse output

Power quality analyser calibration
Functions: Power, voltage, current, phase, frequency, harmonic, interharmonic, modulation, flicker, dip/swell

Transducer calibration
Power© SW for fully automatic transducer calibration with certificate printout

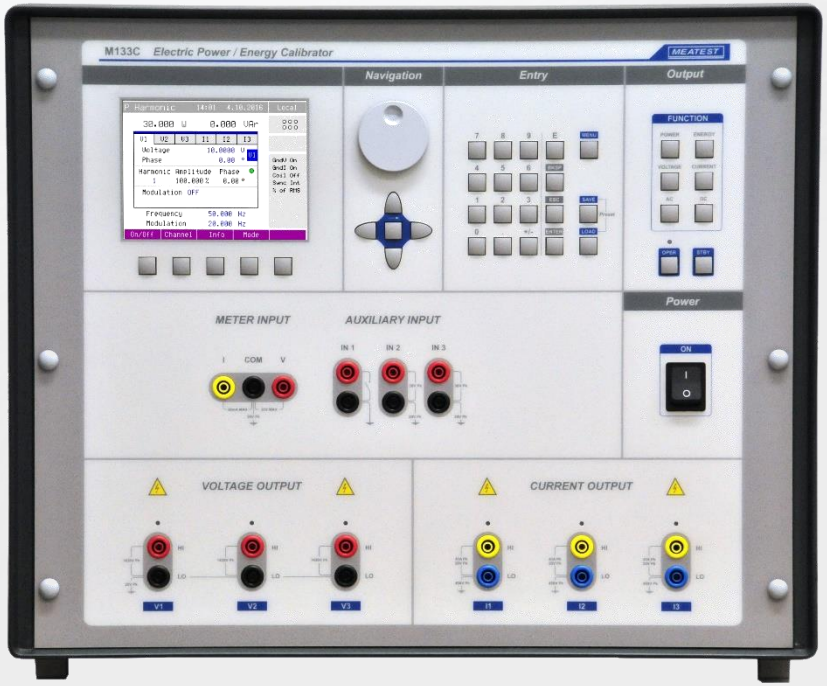
M133C Series Electrical Power / Energy Calibrators

Application

- Source of AC voltage and current up to 1 kHz
- Meters with joint voltage and current terminals via floating current outputs.
- Clamp meters up to 2250 A using current coils

M133C Electrical Power / Energy Calibrator

Three or Single phase version



Voltage (3x)
- 1 - 600 Vac / 280 Vdc
- 150 ppm

Current (3x)
- 8 mA – 30 A ac/dc
- 250 ppm

Power & Energy (3x)
- 8 mW – 8.4 kWdc / 18kWac
- 440 ppm

Functions
- harmonic, interharmonic, modulation, flicker, dip/swell, energy functions

Other versions

Single phase version

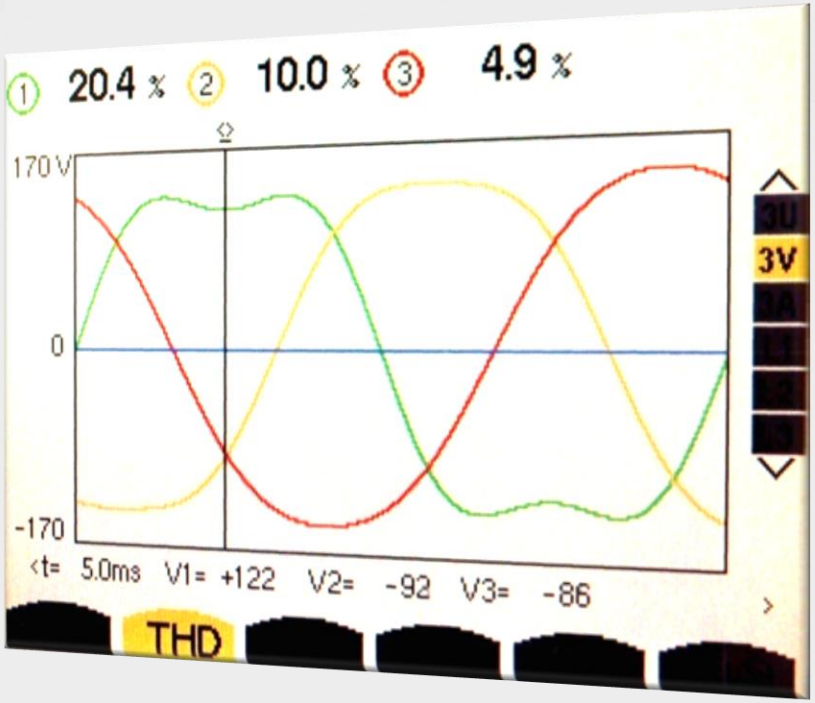
+ Same features
+ Lower price
– Single phase output

Economic i-version

+ Same specification
+ Lower price
– No power quality features

Power Quality

- All six channels have shift setable in 0 – 360° range
- Fundamental frequency 15 Hz – 1 Khz
- PQ modes:
  - Harmonic (up to 50th)
  - Interharmonic (up to 5 kHz)
  - Modulation, Flicker
  - Dip / Swell



Three phase harmonics
3rd, 5th, 10th, various percentages

M133C High Current Option

Single phase 90 A adapter (with 151-25 current coil)

Overview

	Version	Range	Power Quality	Interfaces
M133C	Three phase	3 x (8 mW – 18 kW)	✓	RS232, GPIB, Ethernet
	Single phase	8 mW – 18 kW		
M133Ci	Three phase	3 x (8 mW – 18 kW)	–	
	Single phase	8 mW – 18 kW		