

# 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

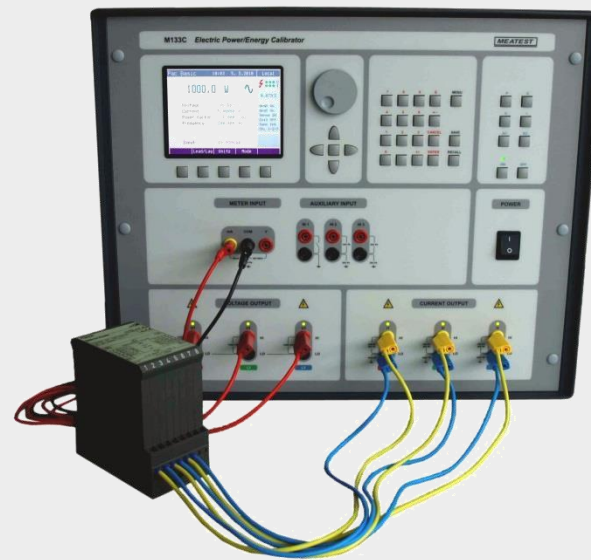
## Energy meter calibration

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<sup>®</sup> SW for fully automatic transducer calibration with certificate printout

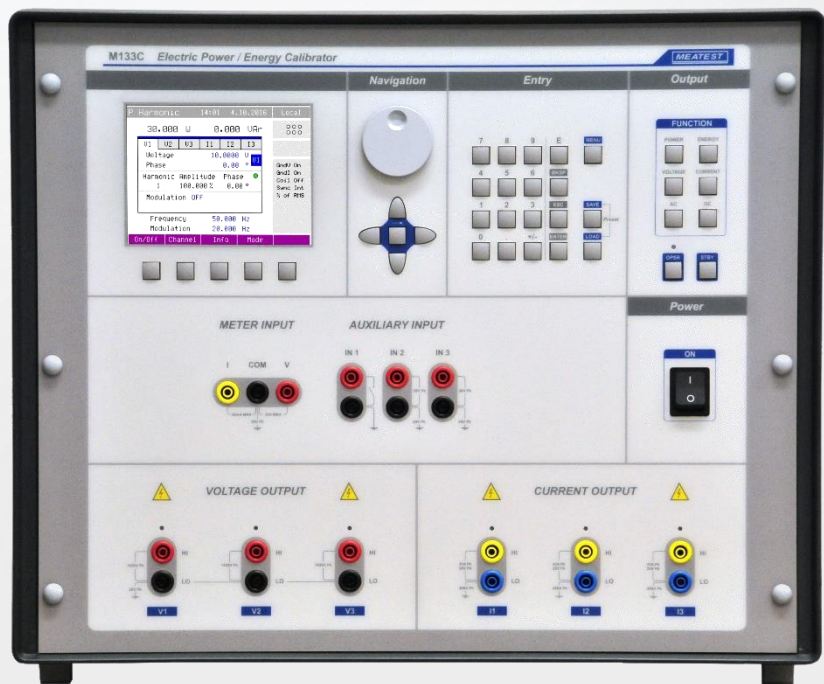


# Application

- 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  
250 ppm

Current (3x)  
8 mA – 30 A ac/dc  
350 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

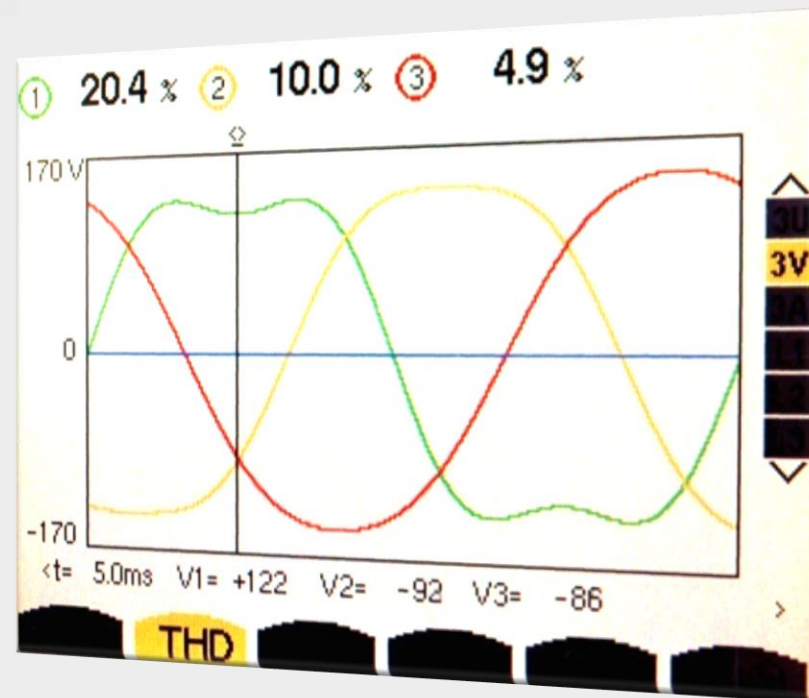
### Economic i-version

- + 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 50<sup>th</sup>)
  - 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
<b>M133C</b>	Three phase	3 x (8 mW – 18 kW)	✓	RS232, GPIB, Ethernet
	Single phase	8 mW – 18 kW		
<b>M133Ci</b>	Three phase	3 x (8 mW – 18 kW)	–	
	Single phase	8 mW – 18 kW		