



Analyze Power-related Issues

FLIR CM82/ CM83/CM85

True RMS Power Clamps

FLIR's CM82, CM83 and CM85 industrial-grade power clamp meters are engineered with advanced power analysis and variable frequency drive (VFD) filtering functions required by electrical troubleshooters. The CM83 and CM85 meters offer additional features including Bluetooth technology to connect compatible mobile devices for remote viewing and sharing, and METERLINK technology, to wirelessly embed electrical readings into radiometric infrared images on compatible FLIR thermal cameras.

Superior accuracy.

Advanced power analysis and variable frequency drive filtering functions

- VFD Mode provides superior accuracy for working on VFD-controlled equipment
- Advanced power efficiency and harmonics measurements for system level
 performance analysis
- True RMS voltage and current plus non-contact voltage detector

Reliable performance.

Dependable functionality vital to professionals

- 2 meter drop tested with lifetime warranty
- Inrush mode captures fast AC Current spikes during appliance start-up
- Phase Rotation testing ensures the motor and power source are aligned

Key for troubleshooting.

Designed for convenience and ease of use

- Powerful LED lamps assist with clamping and are bright enough to serve as a primary work light
- Remote viewing on smartphones and tablets via Bluetooth plus METERLINK to wirelessly embed readings into thermal images on compatible FLIR cameras (CM83 and CM85 only)
- Large, easy-to-read digits, backlit display and analog bargraph



Specifications

Technical Summary	CM82	СМ83	CM85	Basic Accuracy
AC/DC Current	600A	600A	1000A	±2%
AC/DC Voltage	1000V	1000V	1000V	±1%/0.7%
AC VFD Voltage	1000V	1000V	1000V	±1%
Harmonics	1st-25th Order	1st-25th Order	1st-25th Order	±5%
Total Harmonic Distortion	0.0 to 99.9%	0.0 to 99.9%	0.0 to 99.9%	±3%
Inrush Current	600ACA (Integration Time 100ms)	600ACA (Integration Time 100ms)	1000ACA (Integration Time 100ms)	±3%
Active Power	10kW to 600kW (10V, 5A min)	10kW to 600kW (10V, 5A min)	10kW to 1000kW (10V, 5A min)	±3%
Diode Test	0.4 to 0.8V	0.4 to 0.8V	0.4 to 0.8V	±0.1V
Capacitance	3.999mF	3.999mF	3.999mF	±1.9%
Resistance	99.99kΩ	99.99kΩ	99.99kΩ	±1%
Continuity Threshold	30Ω	30Ω	30Ω	±1%
Frequency	20.00Hz to 9.999kHz	20.00Hz to 9.999kHz	20.00Hz to 9.999kHz	±0.5%
Bluetooth Range Max	_	32ft (10m)	32ft (10m)	_
Jaw Opening	1.45in (37mm, 1000MCM)	1.45in (37mm, 1000MCM)	1.77in (45mm, 1500MCM)	_
Category Rating	CAT IV-600V, CAT III-1000V			
Battery Type	6 x AAA			
Warranty	Limited Lifetime*			

* When registered within 60 days of purchase.

Ordering Information

Accessories

- TA11.....Protective Case for CM8x and CM7x Series
- TA55.....AC Current Line Splitter
- TA70.....CAT IV Insulated Alligator Clips
- TA80.....CAT IV Silicone Test Leads



Premium silicone test leads included



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