

FLIR CM276™

Clamp Meter and Thermal Imaging Camera with METERLiNK®



Key Features:

- Reduces inspection and troubleshooting time for solar photovoltaic, electrical, and mechanical systems with its advanced thermal and visual camera.
- IGM™ (Infrared Guided Measurement) for safer non-contact thermal inspections.
- Advanced connectivity and analysis through the METERLiNK® app.

Main Applications:

- For the inspection of critical assets found in commercial property, data centers, production, and manufacturing facilities. Streamline inspections and troubleshooting while taking key measurements, collecting data and preparing reports.
- Used by solar farm managers and technicians to quickly detect PV cell issues and provide thorough, efficient analysis of PV systems, reducing overall toolkit costs (1500 V PV test leads optional).
- Ideal for electrical service providers to large facilities who incorporate thermal imaging and visual documentation into their services, aligning with NFPA 70B requirements.

www.flir.com/CM276

SPECIFICATIONS

Thermal Imaging	
Color palettes	Iron, rainbow, arctic, white hot, and black hot
Display size	2.4 in TFT screen
Field of view [V x H]	44° x 57°
Focus	Fixed
Storage media	eMMC 8 GB
IR resolution	160 x 120 (19,200 pixels)
Sensitivity	150 mK
IR imaging spectral response	8 µm to 14 µm
Thermal imaging detector	FLIR Lepton® microbolometer
IR temperature measurement range	-10°C to 300°C (14°F to 572°F)
IR temperature resolution	0.1°C (0.1°F)
IR temperature accuracy	±3°C (5.4°F) or ±3% of the reading; whichever is greater
Emissivity adjustment	0.10 to 1.00 (default is 0.95); select from three presets or set manually
Laser pointer type	Class 1
Laser pointer power	≤0.39 mW
Laser wavelength	640 nm to 660 nm

Image modes	Thermal MSX (Multi Spectral Dynamic Imaging) Thermal camera only Digital camera only
Visual Imaging	
Resolution	2 MP (1600 x 1200 pixels)
Focus	Fixed
Field of view	71° x 56°
Measurement & Analysis	
AC/DC current	Range 600.0 A / Basic accuracy ±2.0%
AC/DC voltage	Range 1000 V / Basic accuracy ±1.0%
Auto range	Yes, with manual range option
Capacitance	Range 1000 µF / Basic accuracy ±1.0%
Continuity check threshold	<30 Ω beeper on, >150 Ω beeper off
Diode	Range 1.5 V / Basic accuracy ±1.5%
Flex input AC A	Range 3000 A / Basic accuracy ±1.0%
Flex input frequency counter	Range 10.00 kHz / Basic accuracy ±0.1%
Inrush AC current	Range 600.0 A / Basic accuracy ±3.0%
(continued)	

For more information and to find your local support number, visit:
FLIR.com/contactsupport
www.FLIR.com

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FLIR CM276™

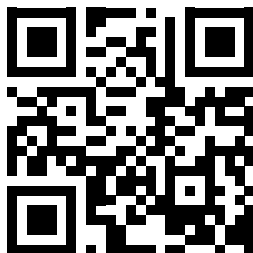
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SPECIFICATIONS, CONT.

LoZ mode AC voltage	Range 60.00 V, 600.0 V, 1000 V / Basic accuracy $\pm 1.0\%$
LoZ mode DC voltage	Range 60.00 V, 600.0 V, 1000 V / Basic accuracy $\pm 1.0\%$
Measuring rate	3 samples per second
Resistance	Range 60K Ω / Basic accuracy $\pm 1.0\%$
Temperature accuracy	$\pm 3^{\circ}\text{C}$ (5.4°F) or $\pm 3\%$ of rdg; whichever is greater
Temperature range	-10°C to 300°C (14°F to 572°F)
True RMS	Yes
VFD AC current	Range 600.0 A / Basic accuracy $\pm 2.0\%$
VFD AC voltage	Range 1000 V / Basic accuracy $\pm 1.0\%$
PV DC V	Range 1000 V / Basic accuracy $\pm 2.0\%$ with TA82 Range 1500 V / Basic accuracy $\pm 2.0\%$ with TA85/TA86 (optional accessories)
PV DC power	Range 900 kVA / Basic accuracy $\pm 2.0\%$
Communication & Data Storage	
Connectivity	Bluetooth®
Data logging & storage	10 sets of 40K scalar measurements, 30K images
Power	
Auto power off	For device: option to OFF, 2, 5, or 10 minutes For worklight only: option to OFF, 5, 15, or 30 minutes
Battery	Rechargeable 3.7 V, 5400 mAh LiPo
General	
Size (L x W x H)	272 mm x 100 mm x 51.5 mm (10.7 in x 3.94 in x 2.0 in)
Weight	560 g (19.8 oz)
Jaw opening	35 mm (1.37 in)
IP rating	IP40
Worklights	2 x white LED
In the box	FLIR CM276 Clamp Meter, CAT IV 600 V Silicone Test Leads (TA82), USB Type-A to Type-C Cable, Soft Carrying Case, FLIR Quick Start Guide, FLIR Warranty Card
Environmental & Certifications	
Drop test	2 m (6.5 ft)
Warranty	10 year

Ordering Information	Order #
FLIR CM276 IGM Clamp Meter with METERLiNK	793950392768
FLIR TA85 PV Test Leads	793950377857
FLIR TA86 MC4 PV Plugs	793950377864

Specifications subject to change. For the most up-to-date specifications, please visit flir.com.



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