

## Product Datasheet - Technical Specifications



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### Your contact

Technical and commercial sales, price information,  
quotations, demo/test equipment, consulting:

Tel.: +49 - (0)81 41 - 52 71-0

E-Mail: [sales@meilhaus.com](mailto:sales@meilhaus.com)

**Meilhaus Electronic GmbH**  
Am Sonnenlicht 2  
82239 Alling/Germany

Tel. +49 - (0)81 41 - 52 71-0 E-  
Mail [sales@meilhaus.com](mailto:sales@meilhaus.com)

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### 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](http://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)	

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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 60 K $\Omega$ / Basic accuracy $\pm 1.0\%$
Temperature accuracy	$\pm 3^{\circ}\text{C}$ (5.4 $^{\circ}\text{F}$ ) or $\pm 3\%$ of rdg; whichever is greater
Temperature range	$-10^{\circ}\text{C}$ to $300^{\circ}\text{C}$ (14 $^{\circ}\text{F}$ to 572 $^{\circ}\text{F}$ )
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 $\pm 2.0\%$
<b>Communication &amp; Data Storage</b>	
Connectivity	Bluetooth®
Data logging & storage	10 sets of 40K scalar measurements, 30K images
<b>Power</b>	
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
<b>General</b>	
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
<b>Environmental &amp; Certifications</b>	
Drop test	2 m (6.5 ft)
Warranty	10 year

Specifications subject to change. For the most up-to-date specifications, please visit [flir.com](http://flir.com).

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

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