

P/N: CM78

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The FLIR CM78 is a true RMS industrial grade 1000 A clamp meter for the electrician who needs a safe, capable combination tool.

- The integrated infrared (IR) thermometer provides fast non-contact measurements on panels, conduits, and motors.
- Powerful work lights not only assist with clamping but are bright enough to serve as a primary work light.
- FLIR Tools Mobile connects the FLIR CM78 to your compatible smartphones and tablets via Bluetooth.
- METERLINK technology wirelessly integrates electrical readings on your IR image with FLIR thermal cameras.

Features:

Voltage and current, minimum, maximum, average, auto power off, data hold, relative, peak hold, battery status indicator, bright white LED backlight.

Measurement	
AC/DC current	1000 A \pm 2.5%
AC/DC voltage	1000 V \pm 1.5%
Resistance	40.00 M Ω \pm 1.5%
Capacitance	4.000 mF \pm 3%
Frequency	4000 Hz \pm 1.5%
Temperature (IR)	-20 to 270°C (-20 to 518°F) \pm 2%
IR distance to target ratio	8:1
Type K temperature (optional probe)	-20 to 760°C (-4 to 1400°F) \pm 3%
Maximum voltage applied to any terminal	1000 V DC or 1000 V AC RMS
Measuring rate	20 samples per second (nominal)
Meter data	
Jaw opening	42 mm (1.7", 1500 MCM)
Bluetooth range (maximum)	10 m (32')
Category rating	CAT IV-600 V, CAT III-1000 V
Data recording	N/A



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Meter data	
Warranty	Limited lifetime
Calibration cycle	Once per year (suggested)

Certifications	
Certifications	UL, CE, FCC, CB
Complies with safety standards	IEC 61010-1 CAT IV-600 V and CAT III-1000 V, IEC 61010-2-33

Power system	
Power requirements	6 × 1.5 V AAA alkaline batteries
Battery life	~100 hours with alkaline batteries (backlight, work light, and Bluetooth off)
Auto power off	Default: 25 minutes

Environmental data	
Operating ambient temperature	-10 to 50°C (14–122°F)
Storage temperature	-25 to 60°C (-14 to 140°F)
Temperature coefficient	0.2 × (specified accuracy)/°C, <18°C, >28°C
Operating altitude	2000 m (6550')
Pollution degree	2
Electromagnetic compatibility	EN 61326-1
Shock vibration	Random vibration per MIL-PRF-28800f Class 2 (5–55 Hz, 3g maximum)

Meter physical data	
Weight	0.63 kg (1.4 lb.), including batteries
Dimensions (H × W × L)	257 mm × 110 mm × 50 mm (10.1" × 4.3" × 2.0")
Material	<ul style="list-style-type: none">Polycarbonate and acrylonitrile butadiene styrene (PC-ABS)Thermoplastic elastomer (TPE)
Color	Gray, black

Shipping information	
Packaging type	Color box with view of product in clamshell
Packaging contents	<ul style="list-style-type: none">CM78 FLIR meterTA80 premium test leads6 × AAA Energizer batteriesUser manual/CD
Packaging weight	1.03 kg (2.27 lb.)
Packaging dimensions (H × W × L)	13.5 cm × 11 cm × 30 cm (5.3" × 4.3" × 11.8")
Carton weight	21.5 kg (47.4 lb.)
Carton dimensions (H × W × L)	57 cm × 30 cm × 65 cm (22.4" × 11.8" × 25.6")
Carton quantity	20
EAN-13	0793950370780
UPC-12	793950370780
Country of origin	China
Tariff code	9030310000

Accessories	
TA80	CAT IV silicon test leads



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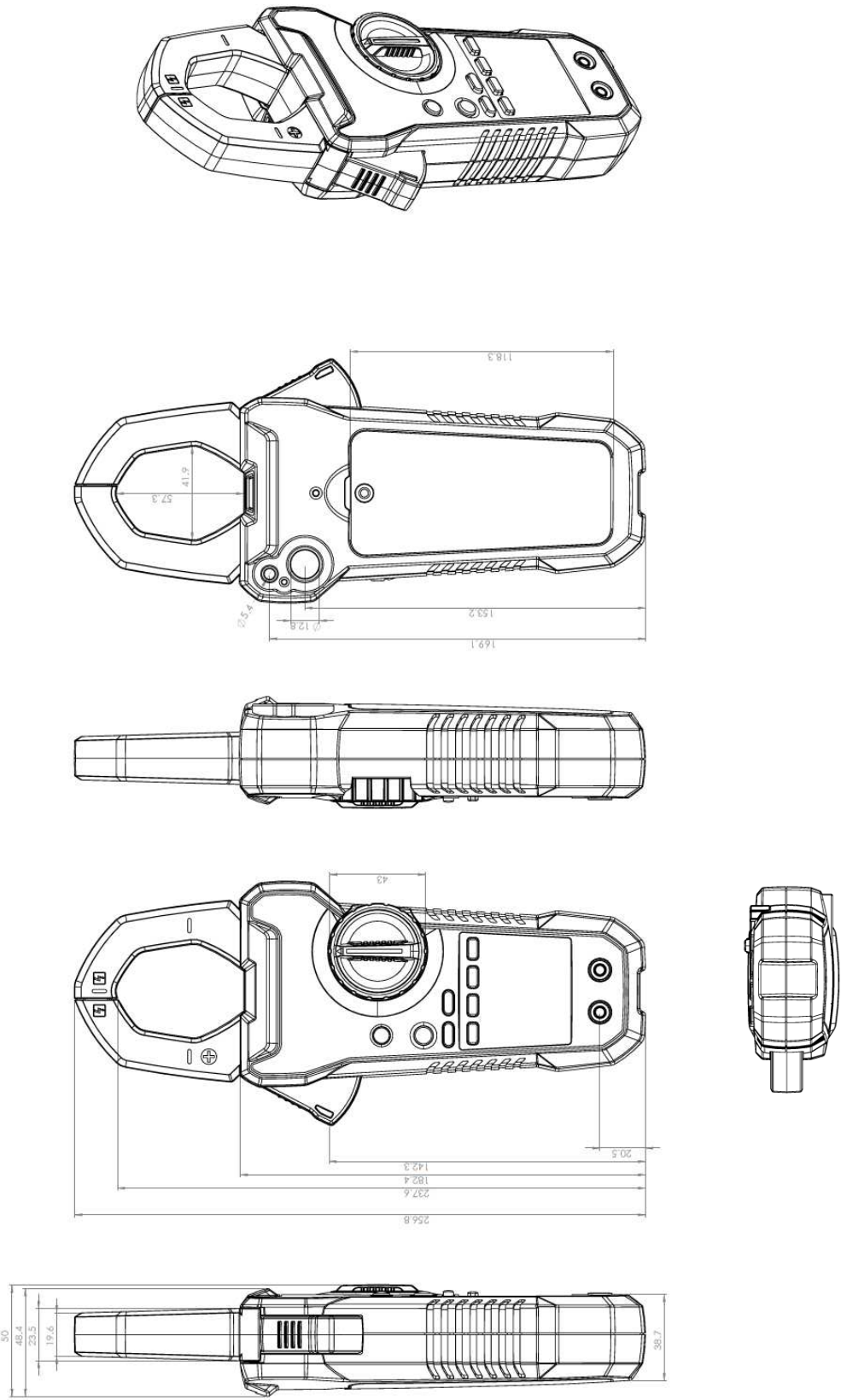
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Modified Date Monday, March 17, 2014	Modified By T&M Engineering
Description FLIR CM78, Units in mm	

