

Product Datasheet - Technical Specifications



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FLIR CM74: Commercial 600A AC/DC Clamp Meter

P/N: CM74

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

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General description	
Part number	CM74
Part name	Commercial 600A AC/DC Clamp Meter
<p>The FLIR CM74 600A AC/DC Clamp Meter give you better access to wiring in hard-to-reach places, and provides all the measurement capabilities you need for advanced troubleshooting. Made with a narrow jaw and high-powered LED worklights, the FLIR CM74 makes it easier to take measurements in dark, crowded panels and cabinets. Its slim, light design is convenient to carry in your pocket wherever you go. With advanced electrical features including auto-ranging, true RMS voltage and current, LoZ, inrush, VFD Mmode, and an input for a flexible current probe accessory, the FLIR CM74 has all the measurement functions you need to stay competitive and ensure accurate readings.</p>	
<p>Better clamp access and portability:</p> <ul style="list-style-type: none"> • Take measurements in hard-to-reach places, and carry the clamp wherever you go. • Made with a narrow jaw for easy access to wiring in crowded panels and cabinets. • Slim clamp design makes it convenient to carry in your pocket. • Dual bright high-powered LED worklights guide you to your target in poor lighting conditions. 	
<p>All the electrical features you need:</p> <ul style="list-style-type: none"> • Tackle modern challenges, get accurate readings. • Advanced electrical features including true RMS, LoZ, and smart diode with disable. • Expandable to 3000 A AC with the FLIR TA72 and TA74 Flex Clamp Accessories (sold separately). • Minimum/maximum, hold, and auto power off with disable. 	
<p>Engineering you can have confidence in:</p> <ul style="list-style-type: none"> • Built rugged, and includes accessories to make troubleshooting easier. • Premium gold-tipped silicone test lead accessories included. • Large-digit LCD display with a bright backlight. • Rubberized double molded hand grips to reduce slippage. 	
Electrical measurement	
True RMS voltage and current	Yes
Auto-ranging	Yes, with manual range option
DC V range	60.00 V, 600.0 V, 1000 V
DC V accuracy	± (1.0% + 5 dgt)
AC V range	60.00 V, 600.0 V, 1000 V
AC V accuracy	±(1.0% + 5 dgt) 45–400 Hz
AC V VFD range	60.00 V, 600.0 V, 1000 V
AC V VFD accuracy	±(1% + 5 dgt) 45–65 Hz, ±(5% + 5 dgt) 65–400 Hz



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Electrical measurement	
LoZ range	60.00 V, 600.0 V, 1000 V
LoZ accuracy	$\pm(1\% + 5 \text{ dgt})$ 45–65 Hz, $\pm(5\% + 5 \text{ dgt})$ 65–400 Hz
LoZ input impedance	2.5k Ω
AC A range	60.00 A, 600.0 A
AC A accuracy	$\pm(2\% + 5 \text{ dgt})$ 45–65Hz, $\pm(2\% + 5 \text{ dgt})$ 65–400Hz
AC A VFD range	60.00 A, 600.0 A
AC A VFD accuracy	$\pm(2\% + 5 \text{ dgt})$ 45–65Hz, $\pm(6\% + 5 \text{ dgt})$ 65–400Hz
AC A inrush range and accuracy	60.00 A \pm (3% + 0.3 A), 600.0 A \pm (3% + 5 dgt)
DC A range	60.00 A, 600.0 A
DC A accuracy	$\pm(2\% + 5 \text{ dgt})$
Frequency range	600.0 Hz, 6.000 kHz , 60.00 kHz
Frequency accuracy	$\pm(0.1\% + 2 \text{ dgt})$
Resistance range	600.0 Ω , 6.000 k Ω
Resistance	$\pm(1.0\% + 5 \text{ dgt})$
Continuity	600.0 Ω \pm (1.0% + 5 dgt)
Diode	1.5V \pm (1.5% + 5 dgt)
Capacitance	1–1000 μ F \pm (1.0% + 4 dgt)
Flex input AC A range	30.00 A, 300.0 A, 3000 A
Flex input AC A accuracy	$\pm(1\% + 5 \text{ dgt})$ 45–400Hz
Flex input Frequency range	600.0 Hz, 6.000 kHz , 10.00 kHz
Flex input AC A accuracy	$\pm(0.1\% + 2 \text{ dgt})$
Additional measurement functions	Integrated VFD mode, DCA zero, data hold, minimum/maximum

General	
Worklights	Dual white LEDs
Jaw opening:	35 mm (1.38 in.)
Display Counts	0–6000
Measuring rate:	3 times per second
Calibration Cycle	1 year calibration cycle recommended
Auto Power Off	10 minutes with disable
Power Source	4 \times 1.5 V AAA alkaline batteries.
Battery Life	65 hours (with alkaline batteries and backlight/worklight off)

Environmental data	
Operational temperature	–10 to +10°C (14–50°F) (non-condensing) 10–30°C (50–86°F) (\leq 80% relative humidity (RH)) 30–40°C (86–104°F) (\leq 75% RH) 40–50°C (104–122°F) (\leq 45% RH)
Storage temperature	–20 to +60°C (4–140°F)
Relative humidity	0–80% RH (batteries not installed)
Temperature coefficient:	0.2 \times (specified accuracy)/°C, <18°C (64.4°F), >28°C (82.4°F)
Operating altitude:	2000 m (6562 ft.)
Pollution degree	2



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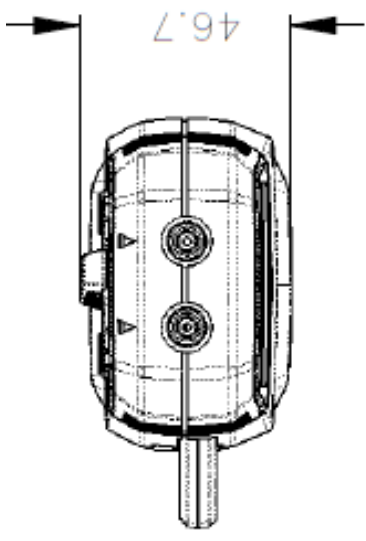
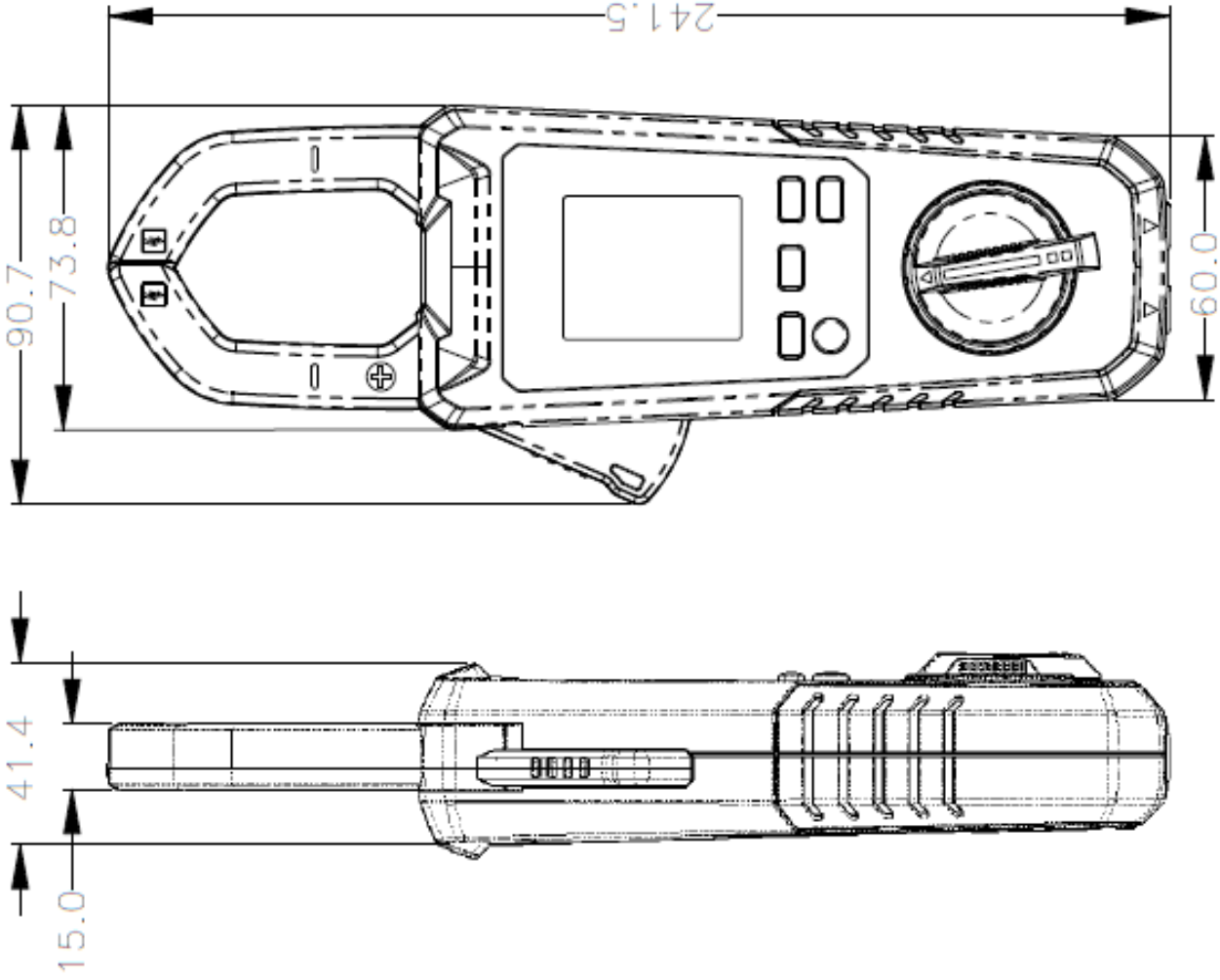
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Physical data	
Dimensions: (D × W × L):	43 mm × 89 mm × 241 mm (1.7 in. × 3.5 in. × 9.5 in.)
Weight	426 g (15.0 oz.) including batteries
Warranty	
Warranty	https://www.flir.com/testwarranty
Certifications	
Certifications	UL, cUL
Safety category rating	EN 61010-1 CAT IV-600 V, CAT III-1000 V, EN 61010-2-032
Shipping information	
Packaging type	Retail color box
Packaging contents	CM74, 4 × AAA batteries, premium CAT IV silicone test leads, quick start guide, user manual (CD), warranty registration card
Packaging weight	0.9 kg (2 lb.)
Packaging dimensions (H × W × L)	33 cm × 14 cm × 10.7 cm (13 in. × 5.5 in. × 4.3 in.)
Master carton weight	11.8 kg (26.1 lbs.)
Master carton dimensions (H × W × L)	62.3 cm × 29.3 cm × 36.1 cm (24.6 in. × 11.6 in. × 14.3 in.)
Master carton quantity	12
UPC	793950370742
EAN	0793950370742
Country of origin	Taiwan
Tariff code	9030.31.0000
Technical support	
Website	http://support.flir.com

Supplies & accessories:

- TA03-KIT; NiMH Rechargeable Battery Kit
- TA11; Protective case for CM7x and CM8x Series
- TA15; Universal Soft Sided Case
- TA42; TA42 Belt Clip
- TA52; TA52 Magnetic Meter Mount
- TA55; AC Current Line splitter
- TA70; CAT IV Insulated Alligator Probes
- TA72; Large Universal Flex Current Probe Accessory (25 cm)
- TA74; Large Universal Flex Current Probe Accessory (45 cm)
- TA80; CAT IV Silicone Test Leads

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Modified Date Thursday, October 29, 2015	Modified By T&M Engineering
Description CM74	
Units Millimeters	Scale Not to Scale