

Product Datasheet - Technical Specifications



More information in our Web-Shop at ► www.meilhaus.com

Your contact

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

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

FAX: **+49 - (0)81 41 - 52 71-129**

E-Mail: sales@meilhaus.com

Meilhaus Electronic GmbH
Am Sonnenlicht 2
82239 Alling/Germany

Tel. **+49 - (0)81 41 - 52 71-0**
Fax **+49 - (0)81 41 - 52 71-129**
E-Mail sales@meilhaus.com

Mentioned company and product names may be registered trademarks of the respective companies. Errors and omissions excepted. © Meilhaus Electronic.

P/N: CM72

Copyright

© 2019, FLIR Systems, Inc.

All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

Document identity

Publ. No.: CM72

Commit: 61686

Language: en-US

Modified: 2019-12-05

Formatted: 2019-12-05

Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to exportquestions@flir.com with any questions.



General description	
Part number	CM72
Part name	Commercial 600A AC Clamp Meter
<p>The FLIR CM72 600A AC 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 CM72 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, and an input for a flexible current probe accessory, the FLIR CM72 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
DC V accuracy	± (1.0% + 5 dgt)
AC V range	60.00 V, 600.0 V
AC V accuracy	±(1.0% + 5 dgt) 45–400 Hz
LoZ range	60.00 V, 600.0 V
LoZ accuracy	±(1% + 5 dgt) 45–65 Hz, ±(5% + 5 dgt) 65–400 Hz



FLIR CM72: Commercial 600A AC Clamp Meter

P/N: CM72

© 2019, FLIR Systems, Inc.

#CM72; r. 61686; en-US

Electrical measurement	
LoZ input impedance	2.5 k Ω
AC A range	60.00 A, 600.0 A
AC A accuracy	$\pm(2\% + 5 \text{ dgt})$ 45–65 Hz, $\pm(6\% + 5 \text{ dgt})$ 65–400 Hz
Frequency range	600.0 Hz, 6.000 kHz, 60.00 kHz
Frequency accuracy	$\pm(0.1\% + 2 \text{ dgt})$
Resistance range	6000 Ω
Resistance	$\pm(1.0\% + 5 \text{ dgt})$
Continuity	600.0 $\Omega \pm (1.0\% + 5 \text{ dgt})$
Diode	1.5 V $\pm (1.5\% + 5 \text{ dgt})$
Capacitance	1–1000 $\mu\text{F} \pm (1.0\% + 4 \text{ dgt})$
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	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	200 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

Physical data	
Dimensions (D \times W \times L)	43 mm \times 89 mm \times 241 mm (1.7 in. \times 3.5 in. \times 9.5 in.)
Weight:	363 g (12.8 oz.) including batteries

Warranty	
Warranty	https://www.flir.com/testwarranty



FLIR CM72: Commercial 600A AC Clamp Meter

P/N: CM72

© 2019, FLIR Systems, Inc.

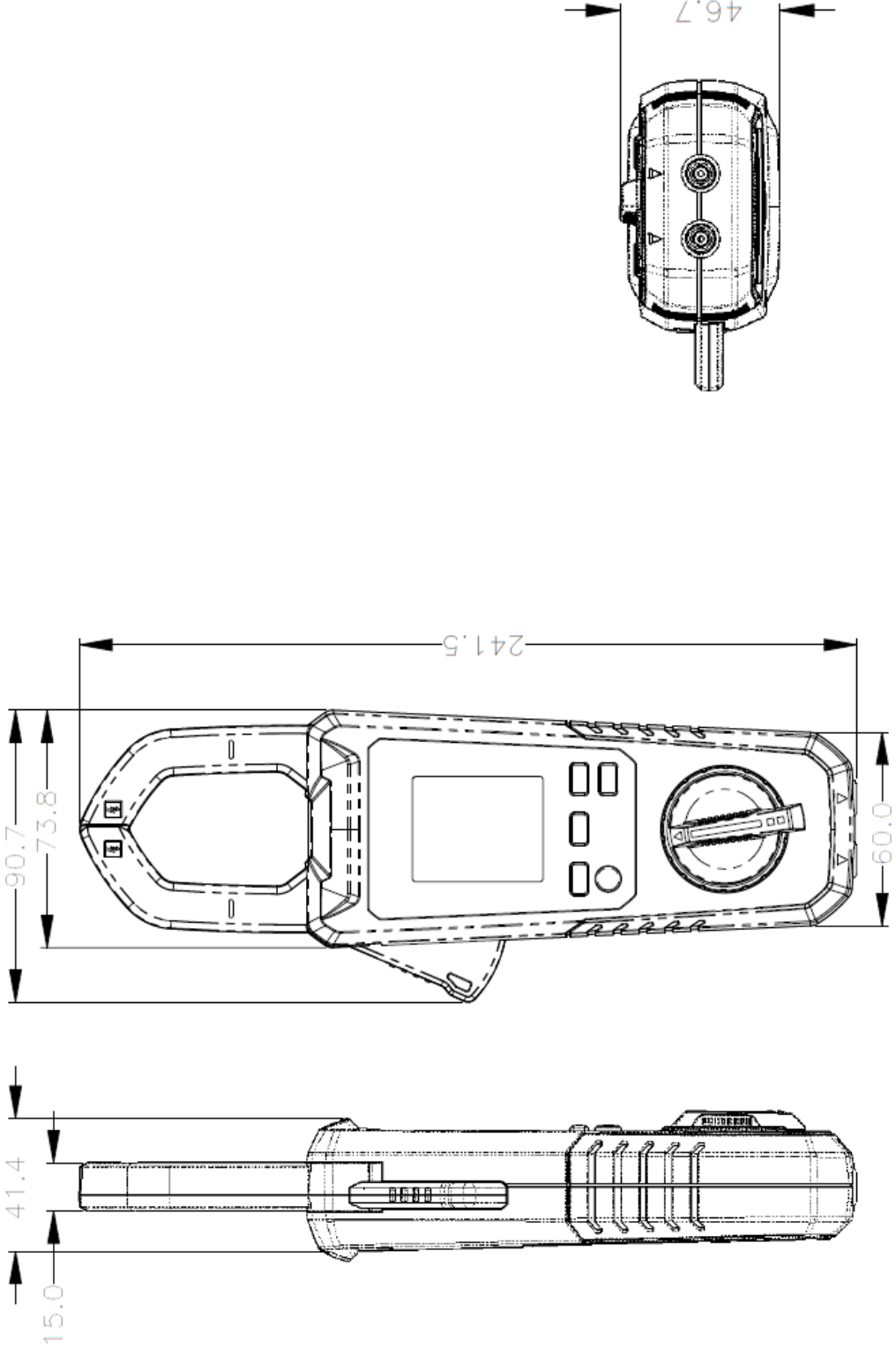
#CM72; r. 61686; en-US

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	CM72, 4 × AAA batteries, premium CAT IV silicone test leads, quick start guide, user manual (CD), warranty registration card
Packaging weight	0.8 kg (1.8 lb.)
Packaging dimensions (H × W × L)	33 cm × 14 cm × 10.7 cm (13 in. × 5.5 in. × 4.3 in.)
Master carton weight	10.6 kg (23.4 lb.)
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	793950370728
EAN	0793950370728
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
- TA74; Large Universal Flex Current Probe Accessory
- TA80; CAT IV Silicone Test Leads

© 2015, FLIR Systems, Inc. All rights reserved worldwide. No part of this drawing may be reproduced, stored in a retrieval system, or transmitted in any form, or by any means, electronic, mechanical, photocopying, recording, or otherwise, without written permission from FLIR Systems, Inc. Specifications subject to change without further notice. Dimensional data is based on nominal values. Products may be subject to regional market considerations. License procedures may apply. Product may be subject to US Export Regulations. Please refer to exportquestions@flir.com with any questions. Diversion contrary to US law is prohibited.



Modified Date Thursday, October 29, 2015	Modified By T&M Engineering
Description CM72	
Units Millimeters	Scale Not to Scale