

Product Datasheet - Technical Specifications



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P/N: CM55

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

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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.



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| Part number | CM55 |
| Name | Flex Clamp Meter with Bluetooth |
| Description | 10" (25 cm) 3000 A true RMS AC flexible current clamp meter with Bluetooth |
| <p>The FLIR Flex Clamp Meters with Bluetooth are ergonomic tools designed to simplify difficult current measurements. Made with a narrow flexible coil clamp, the FLIR CM55 and CM57 let you easily take measurements in tight or awkward spots—a difficult task with a traditional hard jaw clamp meter. With Bluetooth communication for remote viewing and data transfer to iOS and Android devices via the FLIR Tools Mobile app, you can analyze and share data fast right from the job site.</p> | |
| <p>Take accurate measurements in tight or awkward spots—tricky conductors conquered:</p> <ul style="list-style-type: none"> • Snake the coil around obstacles with ease, even in deep, crowded cabinets. • True RMS AC up to 3000 A for multiple conductor measurements. • Inrush current function for equipment start-up spikes. | |
| <p>Easy inspection and navigation—designed with your convenience in mind:</p> <ul style="list-style-type: none"> • Standalone flexible clamp meter displays the readings you need. • Bright, dual-LED worklights provide built-in illumination for dark cabinets. • Drop tested to 3 m, portable, lightweight, and tangle free without compromising measurement range. | |
| <p>Remote viewing from a safe distance—transfer and view data on mobile devices with the FLIR Tools Mobile app:</p> <ul style="list-style-type: none"> • Connect to iOS and Android smartphones or tablets. • Multiple units wirelessly connect for remote viewing of multiphase systems. • Data recording for trend analysis transferable via Bluetooth. | |
| Measurement | |
| Maximum AC | 3000 A AC |
| AC response | True RMS |
| AC ranges and resolution | 30.00 A, 300.0 A, 3000 A |
| Basic AC accuracy (of reading) | ±3.0% + 5 digits |
| Maximum resolution | 0.01 A |
| Measurement rate | 1.5 samples per second, nominal |
| Display rate | 2 times per second |
| AC bandwidth | 45–500 Hz (sine wave) |
| Inrush current | Minimum 0.5 A, 100 mS |
| Data record mode | 20 000 points , 1 minute sample rate |



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| Measurement | |
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| Detailed accuracy | 30.00 A \pm (3.0% + 5 digits), 300.0 A \pm (3.0% + 5 digits), 3000 A \pm (3.0% + 5 digits) |
| Positional error (distance from optimum) | 15 mm (0.6") \pm 2.0%, 25 mm (1.0") \pm 2.5%, 35 mm (1.4") \pm 3.0% |
| Meter data | |
| Display | 3000-count LCD with backlight and multi-function indicators |
| Maximum conductor diameter | 6 cm (2.4") |
| Flex cable length | 25 cm (10") |
| Coil bend radius | 38.1 mm (1.5") |
| Coil diameter | 7.5 mm (0.3") |
| Coil tip diameter | 13 mm (0.5") |
| Display indications | Progressive low battery, over range, hold |
| Work light | Two white LEDs |
| Bluetooth range (maximum) | 10 m (32') |
| Wireless ID# (maximum) | Up to 20 |
| Power system | |
| Power supply | 2 \times 1.5 V AAA |
| Battery life | 100 hours with alkaline batteries (calculated) |
| Auto power off | Approximately 10 minutes after power on or disable |
| Environmental | |
| Drop test | 3 m (9.8') |
| IP rating | IP54 dust-protected and splash-resistant |
| Maximum operating altitude | 2000 m (6562') |
| Operating temperature | 0–50°C (32–122°F) |
| Operating humidity | Maximum 80% up to 35°C (95°F) decreasing linearly to 60% at 45°C (113°F) |
| Temperature coefficient | 0.2 \times specified accuracy/°C, <64.5°F (18°C), >82.4°F (28°C) |
| Storage temperature | –20 to +60°C (–4 to +140°F) without batteries |
| Storage humidity | 80% relative humidity (maximum) |
| Certifications | |
| Agency approvals | RCM, CSA, KC |
| Safety compliance | CAT IV—600 V, CAT III—1000 V |
| Standards | EN61010-1, EN61010-2-032, EN61326-1 |
| Physical data | |
| Dimensions (W \times H \times D) | 120 mm \times 280 mm \times 25 mm (4.7" \times 11.0" \times 1.0") |
| Weight | 170 g (6.0 oz.) with batteries |
| Warranty | |
| Warranty | https://www.flir.com/testwarranty |



FLIR CM55

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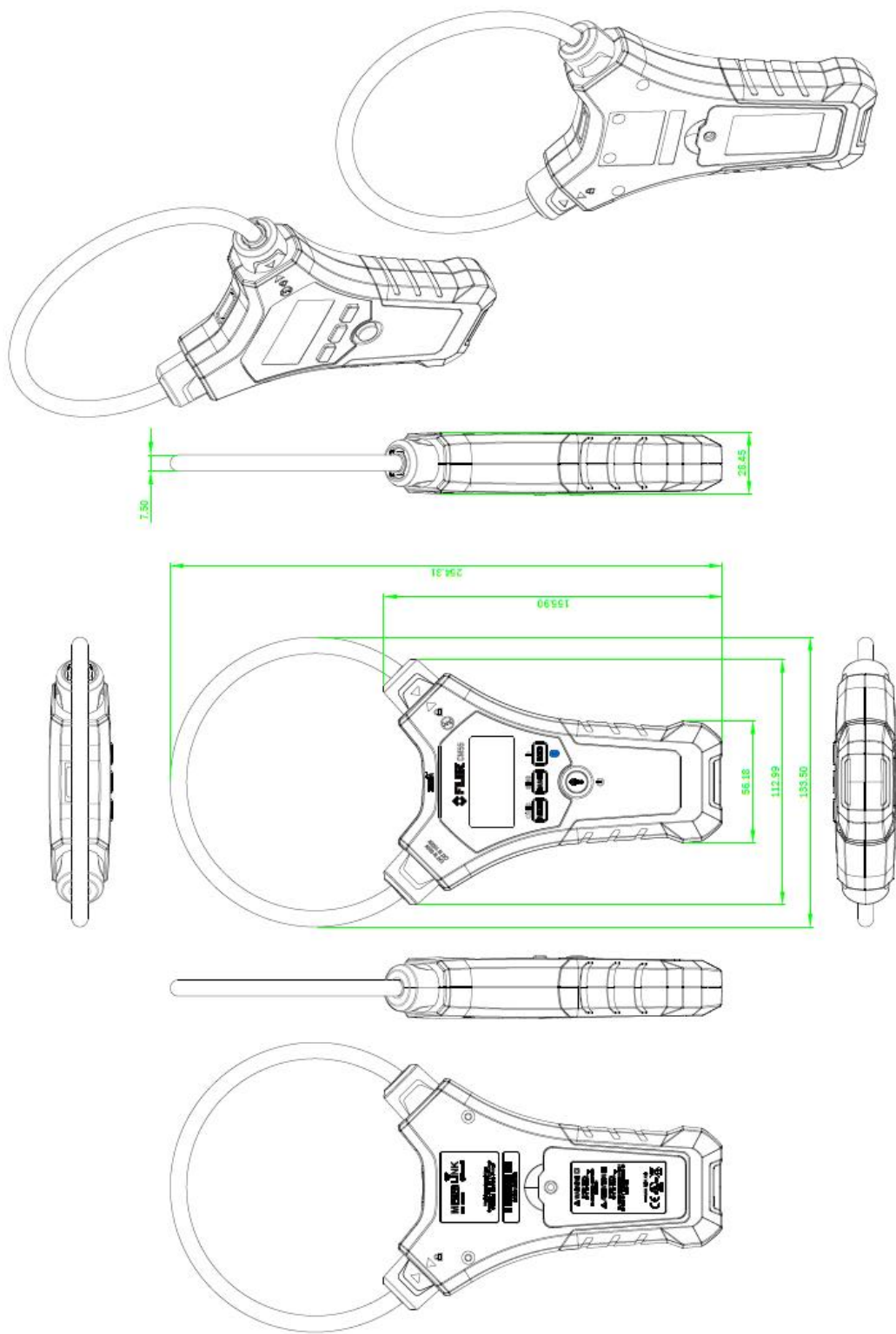
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| Shipping | |
|--------------------------------------|---|
| Packaging type | Color box |
| Packaging contents | CM55, 2 × AAA 1.5 V Energizer batteries, quick start guide, user manual on CD |
| Packaging weight | 0.56 kg |
| Packaging dimensions (L × W × H) | 32 cm × 18.5 cm × 6.8 cm |
| Inner carton quantity | 3 |
| Inner carton weight | 1.94 kg |
| Inner carton dimensions (L × W × H) | 59.5 cm × 6.3 cm × 20.3 cm |
| Master carton quantity | 12 |
| Master carton weight | 9.5 kg |
| Master carton dimensions (L × W × H) | 61 cm × 50 cm × 22 cm |
| EAN-13 | 0793950370551 |
| UPC-12 | 793950370551 |
| Country of origin | Taiwan |
| Tariff code | 9030310000 |
| Technical support | |
| Website | http://support.flir.com |

Supplies & accessories:

- TA03-KIT; NiMH Rechargeable Battery Kit
- TA10-F; Protective Case for DM9x and TA72/74 Series
- TA15; Universal Soft Sided Case
- TA55; AC Current Line splitter

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| Modified Date Thursday, April 23, 2015 | Modified By T&M Engineering |
| Description FLIR CM55 Flex Clamp Meter | |