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Test & Measurement

- > sales
- > rentals
- > calibration
- > repair
- > disposal

Complimentary Reference Material

This PDF has been made available as a complimentary service for you to assist in evaluating this model for your testing requirements.

TMG offers a wide range of test equipment solutions, from renting short to long term, buying refurbished and purchasing new. Financing options, such as Financial Rental, and Leasing are also available on application.

TMG will assist if you are unsure whether this model will suit your requirements.

Call TMG if you need to organise repair and/or calibrate your unit.

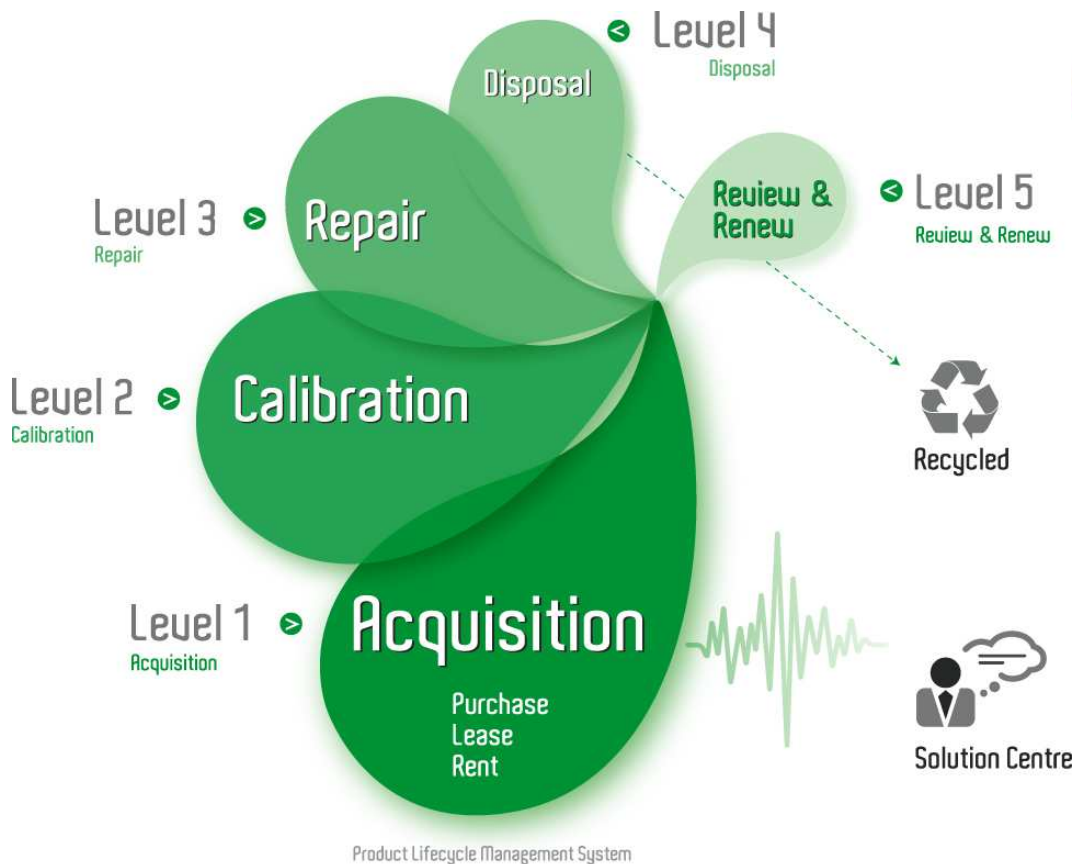
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Product Lifecycle Management System

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FLUKE®

Fluke 320 and 330 Series Clamp Meters

Technical Data



- **Narrow body and jaw fit into small spaces**
- **Backlight available on most models**
- **Accurate low current measurements**
- **Inrush current feature on most models**
- **Auto shut-off**

New Inrush Feature

A new innovation from Fluke! Fluke Clamp Meters with the inrush feature measure motor starting current like a circuit breaker or overload unit sees it. One button lets you troubleshoot current surges that can cause nuisance tripping. Fluke's inrush feature gives you a synchronized reading of the current draw profile from motor start up.

For more information about Fluke's new inrush feature go to www.fluke.com/330 to view *Inrush, A Technology Brief*.

Choose the model that fits your work.

Looking for a clamp meter that's right for you? Match the functions and features listed below to the Fluke Clamp Meter best suited for your job.

321

AC Amps
Ohms
AC Volts
Auto-Off
Hold
Compact








322

AC Amps
Ohms
AC Volts
Auto-Off
Hold
Compact
DC Volts



| | | |
|--|------------------|-----------------------------|
| Measure ac current | 400.0 A | 40.00 A 400.0 A |
| Measure ac voltage | 400.0 V 600 V | 400.0 V 600 V |
| Measure continuity | $\leq 30 \Omega$ | $\leq 30 \Omega$ |
| Measure dc voltage | | 400.0 V 600 V |
| Higher resolution for loads below 40 amperes | | 0 - 40.00A 40.0 - 400.0A |
| Measure resistance | 400.0 Ω | 400.0 Ω |
| Measure inrush | | |
| Work in poorly lit areas | | |
| Measure non-linear loads | | |
| Measure dc current | | |
| Variable speed drives and stand-by power | | |

| 333 | 334 | 335 | 336 | 337 |
|---|--|---|--|---|
| AC Amps Ohms AC Volts Auto-Off Hold Full Size DC Volts | AC Amps Ohms AC Volts Auto-Off Hold Full Size DC Volts In-rush Backlight | AC Amps Ohms AC Volts Auto-Off Hold Full Size DC Volts In-rush Backlight True-rms | AC Amps Ohms AC Volts Auto-Off Hold Full Size DC Volts In-rush Backlight True-rms DC Amps | AC Amps Ohms AC Volts Auto-Off Hold Full Size DC Volts In-rush Backlight True-rms DC Amps Frequency Large Jaw MIN/MAX |
|  |  |  |  |  |
| 400.0 A | 600.0 A | 600.0 A | 600.0 A | 999.9 A |
| 600.0 V | 600.0 V | 600.0 V | 600.0 V | 600.0 V |
| ≤ 30 Ω | ≤ 30 Ω | ≤ 30 Ω | ≤ 30 Ω | ≤ 30 Ω |
| 600.0 V | 600.0 V | 600.0 V | 600.0 V | 600.0 V |
| | | | | |
| 600.0 Ω | 6000 Ω | 6000 Ω | 6000 Ω | 6000 Ω |
| | 100 mS | 100 mS | 100 mS | 100 mS |
| | Backlight | Backlight | Backlight | Backlight |
| | | True-rms | True-rms | True-rms |
| | | | 600.0 A | 999.9 A |
| | | | | 400.0 Hz |

Specifications (@23 °C + 5 °C RH 0 - 90%)

| | | Fluke 321 | Fluke 322 | Fluke 333 | Fluke 334 | Fluke 335 | Fluke 336 | Fluke 337 |
|----------------|----------------------------|--|--|-------------------------------|-------------------------------|---|---|---|
| ~ A | Range | 0 - 400.0 A | 0 - 40.0 A 40.0 - 400.0 A | 0 - 400.0 A | 0 - 600.0 A | 0 - 600.0 A | 0 - 600.0 A | 0 - 999.9 A |
| | Accuracy | 1.8% ± 5 counts (50 - 60 Hz) 3.0% ± 5 counts (60 Hz - 400 Hz) | 1.8% ± 5 counts (50 - 60 Hz) 3.0% ± 5 counts (60 Hz - 400 Hz) | 2% ± 5 counts (50 - 60 Hz) | 2% ± 5 counts (50 - 60 Hz) | 2% ± 5 counts (50 - 60 Hz) | 2% ± 5 counts (10 - 100 Hz) 6% ± 5 counts (100 - 400 Hz) | 2% ± 5 counts (10 - 100 Hz) 6% ± 5 counts (100 - 400 Hz) |
| | Crest Factor (50/60 Hz) | - | - | - | - | 2.4 @ 500 A 2.0 @ 600 A add 2% for C.F.>2 | 3 @ 500 A 2.5 @ 600 A add 2% for C.F.>2 | 3 @ 500 A 2.5 @ 600 A 1.42 @ 1000 A add 2% for C.F.>2 |
| | AC Response | Averaging | Averaging | Averaging | Averaging | True-rms | True-rms | True-rms |
| Inrush | Integration Time | - | - | - | 100 mS | 100 mS | 100 mS | 100 mS |
| -- A | Range | - | - | - | - | - | 0 - 600.0 A | 0 - 999.9 A |
| | Accuracy | - | - | - | - | - | 2% + 3 counts | 2% + 3 counts |
| ~ V | Range | 0 - 400.0 V 0 - 600 V | 0 - 400.0 V 0 - 600 V | 0 - 600.0 V | 0 - 600.0 V | 0 - 600.0 V | 0 - 600.0 V | 0 - 600.0 V |
| | Accuracy | 1.2% + 5 counts (50 - 400 Hz) | 1.2% + 5 counts (50 - 400 Hz) | 1% + 5 counts (50/60 Hz) | 1% + 5 counts (50/60 Hz) | 1% + 5 counts (50/60 Hz) | 1% + 5 counts (20 - 100 Hz) 6% + 5 counts (100 - 400 Hz) | 1% + 5 counts (20 - 100 Hz) 6% + 5 counts (100 - 400 Hz) |
| | AC Response | Averaging | Averaging | Averaging | Averaging | True-rms | True-rms | True-rms |
| -- V | Range | - | 0 - 400.0 V 0 - 600 V | 0 - 600.0 V | 0 - 600.0 V | 0 - 600.0 V | 0 - 600.0 V | 0 - 600.0 V |
| | Accuracy | - | 1% + 5 counts | 1% + 5 counts | 1% + 5 counts | 1% + 5 counts | 1% + 5 counts | 1% + 5 counts |
| Ω | Range | 0 - 400.0 Ω | 0 - 400.0 Ω | 0 - 600.0 Ω | 0 - 600.0 Ω 601 - 6000 Ω | 0 - 600.0 Ω 601 - 6000 Ω | 0 - 600.0 Ω 601 - 6000 Ω | 0 - 600.0 Ω 601 - 6000 Ω |
| | Accuracy | 1% ± 5 counts | 1% ± 5 counts | 1.5% ± 5 counts | 1.5% ± 5 counts | 1.5% ± 5 counts | 1.5% ± 5 counts | 1.5% ± 5 counts |
| Continuity | | ≤ 30 Ω | ≤ 30 Ω | ≤ 30 Ω | ≤ 30 Ω | ≤ 30 Ω | ≤ 30 Ω | ≤ 30 Ω |
| Hz | Range | - | - | - | - | - | - | 5.0 - 400.0 Hz |
| | Accuracy | - | - | - | - | - | - | 0.5% ± 5 counts |
| | Trigger Level | - | - | - | - | - | - | 10 - 100 Hz ≥ 5 A 5 - 10 Hz, 100 - 400 Hz ≥ 10 A |
| MIN/MAX | | No | No | No | No | No | No | Yes |
| Backlight | | No | No | No | No | Yes | Yes | Yes |
| Display Hold | | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| Size | Height | 7.5" | 7.5" | 9.375" | 9.375" | 9.375" | 9.875" | 9.875" |
| | Width | 2.5" | 2.5" | 3.125" | 3.125" | 3.125" | 3.125" | 3.125" |
| | Depth | 1.4" | 1.4" | 1.625" | 1.625" | 1.625" | 1.625" | 1.625" |
| | Jaw Opening | 1" (25.4 mm) | 1" (25.4 mm) | 1.2" (30.5 mm) | 1.2" (30.5 mm) | 1.2" (30.5 mm) | 1.2" (30.5 mm) | 1.2" (30.5 mm) |
| Max. Wire Size | | 500 MCM | 500 MCM | 750 MCM | 750 MCM | 750 MCM | 750 MCM or two 500 MCM | 750 MCM or two 500 MCM |
| Weight | | 8 oz. | 8 oz. | 11 oz. | 11 oz. | 11 oz. | 11 oz. | 11 oz. |

Models 321 and 322

Operating temperature

-14 °F to 122 °F
(-10 °C to 50 °C)

Altitude

2,000 meters

Battery life

(2) AAA carbon zinc approximately 100 hours continuous, automatic low battery indicator

Safety rating

IEC 1010-2-031, 600 V CAT III

Temperature de-rating

< 18 °C, > 28 °C add 0.1 x specified accuracy / °C

Storage temperature

-22 °F to 140 °F (-30 °C to 60 °C)

Warranty

Two years

Models 333, 334, 335, 336 and 337

Operating temperature

-14 °F to 122 °F
(-10 °C to 50 °C)

Altitude

2,500 meters

Battery life

(2) AA alkaline approximately 150 hours continuous, automatic low battery indicator

Safety rating

IEC 1010-2-031, 600 V CAT III

Temperature de-rating

Add 0.1 x specified accuracy for each °C above 28 °C or below 18 °C

Storage temperature

-40 °F to 140 °F
(-40 °C to 60 °C)

Warranty

Three years

Need Technical Assistance?

Call 1-800-44-FLUKE toll free in the U.S. or (800) 36-FLUKE in Canada or (425) 446-5500 in other countries.



Fluke. Keeping your world up and running.

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