

FLUKE®

New Fluke 287 True-rms Electronics Logging Multimeter with TrendCapture

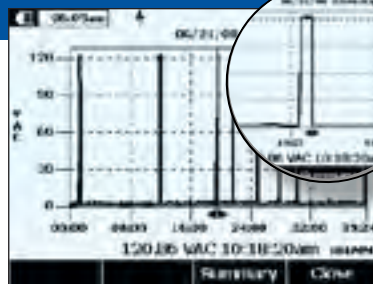
Technical Data

The Best Just Got Better.

The Fluke 287 True-rms Electronics Logging Multimeter with TrendCapture quickly documents design performance and graphically displays what happened. Its unique logging and graphing capabilities mean you no longer need to download logged readings to a PC to detect a trend. The Fluke 287 packs more accuracy and convenience into a handheld multimeter than ever before.

Equipped with new functionality

- **New** – TrendCapture quickly graphically displays logged data session to quickly determine whether anomalies may have occurred
- **New** – Zoom on trend provides unprecedented ability to view and analyze TrendCapture data; zoom in up to 14 times
- **New** – Selectable ac filter (Smoothing mode) helps display a steadier reading when the input signal is changing rapidly or noisy
- **New** – Adjustable recording and auto hold thresholds, specify a percentage change in the readings that begins a new event
- **New** – Large 50,000 count, 1/4 VGA display with white backlight. Multiple sets of measurement information can be simultaneously displayed at the same time.
- **New** – Logging function with expanded memory for unattended monitoring of signals over time. Using on-board TrendCapture users can graphically review logged readings without needing a PC. Store up to 15,000 recorded events.
- **New** – **i** button. On board help screens for measurement functions
- **New** – Saved measurements allow you to name and recall measurements made in the field
- **New** – Multi-lingual interface
- Multiple logging sessions possible without download
- 0.025 % basic dc accuracy
- 100 kHz ac bandwidth
- Real time clock for automatic time stamping of saved readings
- True-rms ac voltage and current for accurate measurements on complex signals or non linear loads. AC bandwidth specified to 100 kHz.
- Measure up to 10 A (20 A for 30 seconds)
- 100 mF capacitance range
- Temperature function
- Relative mode to remove test lead resistance from low ohms or capacitance measurements



TrendCapture displays vDC logged date.



- Peak capture to record transients as fast as 250 μ s
- Premium test leads and alligator clips included
- Optional FlukeView forms enables you to document, store and analyze individual readings or a series of measurements, then convert them into professional-looking documents
- Optional magnetic hanger allows you to hang the meter for easy viewing while freeing your hands to focus on the job
- Limited lifetime warranty

Specifications

Function	Range and Resolution	Basic Accuracy
DC volts AC volts	50.000 mV, 500.00 mV, 5.0000 V, 50.000 V, 500.00 V, 1000.0 V	0.025 % 0.4 % (true-rms)
DC current AC current	500.00 µA, 5000.0 µA, 50.000 mA, 400.00 mA, 5.0000 A, 10.000 A	0.15 % 0.7 % (true-rms)
Temperature (excluding probe)	-200.0 °C to 1350.0 °C (-328.0 °F to 2462.0 °F)	1.0 %
Resistance	500.00 Ω, 5.0000 kΩ, 50.000 kΩ, 500.00 kΩ, 5.0000 MΩ, 50.00 MΩ, 500.0 MΩ	0.05 %
Capacitance	1.000 nF, 10.00 nF, 100.0 nF, 1.000 µF, 10.00 µF, 100.0 µF, 1000 µF, 10.00 mF, 100 mF	1.0 %
Frequency	99.999 Hz, 999.99 Hz, 9.9999 kHz, 99.999 kHz, 999.99 kHz	0.005 %

Additional Functions/Features	Fluke 287
Multiple on screen displays	Yes
True-rms ac bandwidth	100 kHz
dBV/dBm	Yes
DC mV resolution	1 µV
Megohm range	up to 500 M
Conductance	50.00 nS
Continuity beeper	Yes
Battery/fuse access	Battery/fuse
Elapse time clock	Yes
Time of day clock	Yes
Min-max-avg	Yes
Peak	250 µS
Duty cycle	0.01 % to 99.99 %
Pulse width	0.025 ms, 0.25 ms, 2.5 ms, 1250.0 ms
Hold	Yes
Isolated optical interface	Yes
Auto/touch hold	Yes
Reading memory	Yes
Log to PC	Yes
Interval/event logging	Yes
Logging memory	up to 10,000 readings

General specifications

Maximum voltage between any terminal and earth ground: 1000 V

Battery type: 6 AA alkaline batteries, NEDA 15A IEC LR6

Battery life: 100 hours minimum, 200 hours in logging mode

Temperature:
Operating: -20 °C to 55 °C
Storage: -40 °C to 60 °C

Relative humidity: 0 to 90 % (0 to 37 °C), 0 to 65 % (37 °C to 45 °C), 0 to 45 % (45 °C to 55 °C)

Electromagnetic compatibility: EMC EN61326-1

Vibration: Random vibration per MIL-PRF-28800F Class 2

Shock: 1 meter drop per IEC/EN 61010-1 2nd Edition

Size (HxWxL): 22.2 cm x 10.2 cm x 6 cm (8.75 in x 4.03 in x 2.38 in)

Weight: 870.9 g (28 oz)

Ordering information

287 True-rms Electronics Logging Multimeter with TrendCapture

Optional accessories

FVF-SC2 FlukeView® Forms Software with Cable

80BK Integrated DMM Temperature Probe

TLK287 Electronic Test Lead Set

TPAK Magnetic Hanging Kit

C280 Soft Case

Fluke. Keeping your world up and running.®

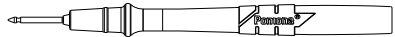
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PO Box 1186, 5602 BD Eindhoven, The Netherlands

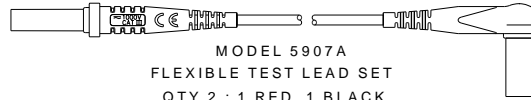
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In the U.S.A. (800) 443-5853 or Fax (425) 446-5116
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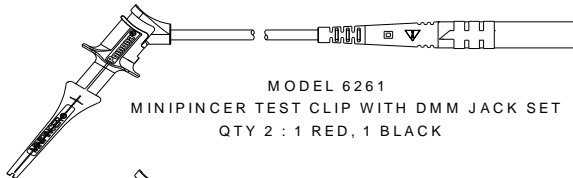
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MODEL 6232A
MODULAR PROBE SET WITH BRASS TIP
QTY 2 : 1 RED, 1 BLACK



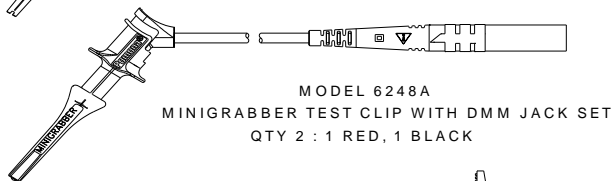
MODEL 5907A
FLEXIBLE TEST LEAD SET
QTY 2 : 1 RED, 1 BLACK



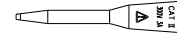
MODEL 6261
MINIPINER TEST CLIP WITH DMM JACK SET
QTY 2 : 1 RED, 1 BLACK



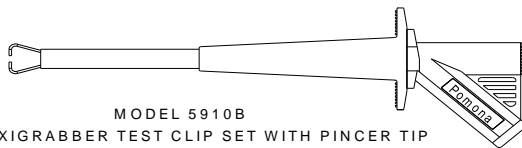
MODEL 5916A
MEDIUM ALLIGATOR CLIP SET
QTY 2 : 1 RED, 1 BLACK



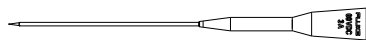
MODEL 6248A
MINIGRABBER TEST CLIP WITH DMM JACK SET
QTY 2 : 1 RED, 1 BLACK



MODEL 6263
IC TEST PROBE TIP ADAPTER SET
QTY 2 : 1 RED, 1 BLACK



MODEL 5910B
MAXIGRABBER TEST CLIP SET WITH PINCER TIP
QTY 2 : 1 RED, 1 BLACK



MODEL 6262
EXTENDED FINE POINT TEST PROBE ADAPTER SET
QTY 2 : 1 RED, 1 BLACK



FOUR-FOLD NYLON POUCH

For data sheets / specifications of the kit individual components, visit the Pomona web site at:
www.pomonaelectronics.com

FEATURES:

- ✓ Test leads with a right angle banana plug are ideal for use with hand held digital multimeter.
- ✓ Flexible test leads feature high strand count silicone wire for extreme flexibility and high temperature resistance.
- ✓ Banana plugs are molded directly to the wire for superior pull strength.
- ✓ Insulated extended fine point adapter allows easy access of hard to reach test points.
- ✓ Probe body, alligator, and test clip lead attaches directly to test leads for testing versatility
- ✓ Test accessories conveniently store in the four-fold nylon pouch.
- ✓ Compatible with most multimeters that accepts safety style sheath banana plugs.
- ✓ CE Compliant; complies with IEC 1010-2-031 standard for hand held accessories.

All dimensions are in inches. Tolerances (except noted): .xx = ±.02" (.51 mm), .xxx = ±.005" (.127 mm).

All specifications are to the latest revisions. Specifications are subject to change without notice.

Registered trademarks are the property of their respective companies.

Sales: 800-490-2361 Fax: 888-403-3360 Technical Assistance: 800-241-2060
For "Where to Buy" information, visit the Pomona web site at www.pomonaelectronics.com

Pomona[®]

The items included with this product are certified to meet IEC 1010-2-031 safety requirements.

Les éléments inclus avec ce produit sont certifiés pour répondre à des exigences de sûreté du IEC 1010-2-031.

Los items incluidos con este producto se certifican para resolver requisitos de seguridad del IEC 1010-2-031.

– Only IEC 1010 type shrouded test plugs should be used with IEC 1010 type jacks. NEVER INSERT A PROBE TIP WITH BANANA SPRING INTO A TEST ACCESSORY JACK THAT WILL BE USED AS A HAND HELD PROBING DEVICE

–Seuls les vérificateurs de tension renforcés de type IEC 1010 devraient être utilisés avec des jacks de type IEC 1010. NE JAMAIS INSERER DE BOUT DE SONDE AVEC RESSORT BANANE DANS UN JACK D'ESSAI D'ACCESSOIRES QUI SERA UTILISE COMME DISPOSITIF DE SONDAGE A MAIN.

–Se deben usar sólo tapones de prueba reforzados del tipo IEC 1010 con receptáculos de tipo IEC 1010. NUNCA INTRODUZCA UNA CLAVIJA CON UN MUELLE TIPO BANANA EN UN RECEPTACULO DE PRUEBA QUE A SU VEZ SE USE COMO APARATO DE PRUEBA MANUAL.



Both Direct and Alternating Current.
Courant Continu et Alternatif.
Corriente Directa y Alterna.



Caution ! Refer to Accompanying Documents.
Attention ! Se Reporter aux Documents joints.
¡ Peligro! Consulte los Documentos Adjuntos.



Double Insulation or Reinforced Insulation.
Isolation Double ou Isolation Renforcée.
Aislamiento Doble o Aislamiento Reforzado.



Caution ! Risk of Electric Shock.
Attention ! Risque de Choc Électrique.
¡ Peligro! Riesgo de Sacudida Eléctrica.

CAT

Overtension Category I, II, III or IV.
Surtension Catégorie I, II, III ou IV.
Sobretensión de Categoría I, II III o IV.

Pomona Electronics **CE**

PO Box 9090, Everett, WA 98206-9090 TEL: 800-490-2361

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