

# WESCHLER INSTRUMENTS

## Fluke High Performance Digital Multimeters



189 ▲



The Fluke 180 Series DMMs deliver breakthrough digital multimeter performance with a wealth of new features, ranges and accuracy that will help make your job easier, such as:

- 0.025% basic dc accuracy.
- 50,000-count resolution with instant readings for detailed analyses.
- TRMS AC and AC + DC
- 100 kHz ac bandwidth for troubleshooting modern electronics.
- Internal memory for up to 3 days of stand-alone logging of measurement changes and manually storing of up to 100 different measurements.

- MIN MAX to record and timestamp values in elapsed time. Fast MIN MAX captures peaks to 250  $\mu$ s.
- Temperature readings in  $^{\circ}$ C or  $^{\circ}$ F using optional K-type thermocouple.
- Enhanced ranges, such as dc voltage measurements down to 10  $\mu$ V, and capacitance up to 50,000  $\mu$ F.
- Multiple reading display with bargraph and two-level backlight.
- CATIII – 1000V & CAT IV – 600V rating
- Lifetime warranty.

### SPECIFICATIONS

Function	Range & resolution	Basic Accuracy
VDC	50.000 mV, 500.00 mV, 3000.0 mV, 5.0000V, 50.000V, 500.00V, 1000.0V	$\pm$ 0.025%
VAC	50.000 mV, 500.00 mV, 3000.0 mV, 5.0000V, 50.000V, 500.00V, 1000.0V	$\pm$ 0.4%
ADC	500.00 $\mu$ A, 5.000 $\mu$ A, 50.000 mA, 400.00 mA, 5.0000A, 10.000A*	$\pm$ 0.15%
AAC	500.00 $\mu$ A, 5.000 $\mu$ A, 50.000 mA, 400.00 mA, 5.0000A, 10.000A*	$\pm$ 0.75%
Resistance	500.00 $\Omega$ -500.00 M $\Omega$	$\pm$ 0.05%
Capacitance	1.100 nF-50.00 mF	$\pm$ 1.00%
Frequency	500.00 Hz, 5.0000 kHz, 50.000 kHz, 999.99 kHz	$\pm$ 0.005%
Temperature	-200 to 1350 $^{\circ}$ C, -328 to 2462 $^{\circ}$ F	$\pm$ 1% of reading

\* 10A continuous, 20A for up to 30 seconds.

Battery life: 72 hours typical (alkaline). Size: 203 mm L x 100 mm W x 50 mm D (8.00" L x 3.94" W x 1.97" D) Weight: 0.545 kg (19.2 oz) Lifetime warranty

### Included accessories

Every 180 Series comes packaged with TL71 Silicone test leads, probe holder, two AC70A alligator clips, four AA batteries (installed), CD-ROM (user's manual and technical notes) and operator's guide.

### ORDERING INFO

Fluke-187 Digital Multimeter

Fluke-189 Logging Multimeter

VFV-SC2 FlukeView Forms Software

### RECOMMENDED ACCESSORIES • 180 & 87 SERIES

Model	Description
TPAK	Meter hanging kit with magnet
C125	Soft carrying case with outside pocket
i410	AC/DC current clamp
80AK + 80PK-1, 80BK	Thermocouple adapter and bead probe
TL81A	Industrial test lead kit



87V ▲



The NEW Fluke 87V has improved measurement functions & troubleshooting features, to solve problems on motor drives, in-plant automation, power distribution and electro-mechanical equipment.

- Selectable filters for accurate measurements on adjustable speed drives
- Built-in thermometer
- Capacitance to 10,000 $\mu$ F
- 30% larger display
- 2 level backlight
- 4x faster (250ms) peak capture
- CATIII-1000V & CATIV-600V rating
- Lifetime warranty

**NEW**

### SPECIFICATIONS

Function	Range & resolution	Basic Accuracy (87V)
DC Volts	600.0 mV, 6.000 V, 60.00 V, 600.0 V, 1000 V	0.05 %
AC Volts	600.0 mV, 6.000 V, 60.00 V, 600.0 V, 1000 V	0.7 % (True-rms)
DC Current	600.0 $\mu$ A, 6000 $\mu$ A, 60.00 mA, 600.0 mA, 6.000 A, 10.00 A	0.2 %
AC Current	600.0 $\mu$ A, 6000 $\mu$ A, 60.00 mA, 600.0 mA, 6.000 A, 10.00 A	1.0 % (True-rms)
Temperature (excl. probe)	-200 to 1090 $^{\circ}$ C (-328 to 1994 $^{\circ}$ F)	1.0 %
80BK Temperature Probe	-40 to 260 $^{\circ}$ C (-40 to 500 $^{\circ}$ F)	2.2 $^{\circ}$ C or 2 %
Resistance	600.0 $\Omega$ , 6.000 k $\Omega$ , 60.00 k $\Omega$ , 600.0 k $\Omega$ , 6.000 M $\Omega$ , 50.00 M $\Omega$	0.2 %
Capacitance	10.00 nF, 100.0 nF, 1.000 $\mu$ F, 10.00 $\mu$ F, 100.0 $\mu$ F, 9,999 $\mu$ F	1.0 %
Frequency	199.99 Hz, 1.9999 kHz, 19.999 kHz, 199.99 kHz	0.005 %

Battery Life: 100 hours typical with headlight off. Size: (LxWxD): 201mm x 98mm x 52mm (7.9in x 3.6in x 2in)

### Included Accessories

Every Fluke 87V meter comes packaged with TL75 Test Leads, AC72 Alligator Clips, holster, 9V battery (installed), temperature probe, CD-ROM (users manual and technical notes) and operators guide.

### ORDERING INFO

Fluke-87-5 Industrial True-rms Multimeter with Temperature  
Fluke-87-5/E Industrial Electrician Combo Kit

### Fluke 87V/E Industrial Electrician Combo Kit

Includes special accessories to increase productivity.

- 1.5m heat resistance silicone test leads
- Removable test probes with 4mm of exposed metal for use on industrial circuits
- Plunger style alligator clips
- Magnetic hanger to position and hold meter to steel surfaces
- Temperature probe
- Packaged in a durable carrying case

# WESCHLER INSTRUMENTS

## Fluke Compact Digital Multimeters



### Fluke 112 ▲

Every Fluke 110 Series meter comes packaged with a H110 protective holster and TL75 test leads, 9V battery (installed), and manual.

### ORDERING INFO

Fluke-110 Digital Multimeter  
 Fluke-111 Digital Multimeter  
 Fluke-112 Digital Multimeter

These little meters pack more features than some DMMs twice their size:

- True-rms ac voltage and current measurement for accurate readings on all waveforms
- 6000-count display provides improved resolution
- Min/Max/Average feature captures irregular activity
- Frequency, capacitance and resistance capabilities
- Backlight Display (112 only)
- Drop protected to 1 meter
- IEC CAT III 600V safety rating
- 3-year warranty

### SPECIFICATIONS

Function	Range & resolution	Best accuracy
VDC	6000 mV, 6.000 V, 60.00 V, 600.0 V	±0.7 % of reading
VAC <sup>1</sup>	6000 mV, 6.000 V, 60.00 V, 600.0 V	±1.0 % of reading
ADC (Models 111 and 112 only)	6.000 A, 10.00 A <sup>2</sup>	±1.0 % of reading
AAC <sup>2</sup> (Models 111 and 112 only)	10.00 A <sup>2</sup>	±1.5 % of reading
Resistance	600.0 Ω, 6.000 kΩ, 60.00 kΩ, 600.0 kΩ, 6.000 MΩ, 40.00 MΩ	±1.5 % of reading
Capacitance	1000 nF, 10.00 μF, 100.0 μF, 9999 μF	±1.9 % of reading
Frequency <sup>3</sup>	99.99 Hz, 999.9 Hz, 9.999 Hz, 50.00 kHz	±0.1 % of reading

<sup>1</sup>Specified from 5% of range to 100% of range. For AAC, 5% of range is relative to 60 A.

<sup>2</sup>10 A continuous, 20 A for up to 30 seconds, and not specified below 3 amps.

<sup>3</sup>Voltage Frequency is specified from 5 Hz to 50 kHz. Current Frequency is specified from 50 Hz to 5 kHz.

Battery life: 300 hours typical for alkaline

Size: (with holster) (H x W x L): 4.6 cm x 9.6 cm x 10.0 cm

[See Accessory List Below](#)

## Fluke Digital Multimeters



### Fluke 179 ▲

The 170 series replaces the popular 70 Series. The 175, 177 and 179 are designed tough to withstand the harshest work environments, and are accurate enough to rival most bench meters.

- Lifetime warranty
- 6000 count display
- 0.09% basic dc accuracy (177 & 179)
- True-rms ac voltage and current measurement
- Min/Max/Average records irregular activity
- Auto and Manual hold
- Frequency, capacitance and resistance capabilities

- 177 and 179 have a backlight to illuminate the screen in dark workspaces
- The 179 measures temperature in °C and °F (thermocouple included)
- IEC 1010 CAT IV 600V, CAT III 1000V safety ratings
- Drop protected to 1 meter
- Overmolded case features integrated probe holders
- Compatible with ToolPak™ meter hanging kit

Every Fluke 170 Series meter comes packaged with TL75 test leads, 9V battery (installed), and manual. The Fluke 179 comes with an 80BK Temperature Probe.

### SPECIFICATIONS

Function	Range & Resolution	Best accuracy
VDC	600.0 mV, 6.000 V, 60.00 V, 600.0 V, 1000V	±0.09 % (Models 177 and 179) ±0.15 % (Model 175)
VAC <sup>1</sup>	600.0 mV, 6.000 V, 60.00 V, 600.0 V, 1000V	±1.0 % of reading
ADC	60.00 mA, 400.0 mA, 6.000 A, 10.00 A <sup>2</sup>	±1.0 % of reading
AAC <sup>2</sup>	60.00 mA, 400.0 mA, 6.000 A, 10.00 A <sup>2</sup>	±1.5 % of reading
Resistance	600.0 Ω, 6.000 kΩ, 60.00 kΩ, 600.0 kΩ, 6.000 MΩ, 50.00 MΩ	±0.9 % of reading
Capacitance	1000 nF, 10.00 μF, 100.0 μF, 9999 μF	±1.2 % of reading
Frequency <sup>3</sup>	99.99 Hz, 999.9 Hz, 9.999 Hz, 99.99 kHz	±0.1 % of reading
Temperature (Model 179)	-40 °C to +400 °C, -40 °F to +752 °F	1.0% of reading

<sup>1</sup>All AC voltage and AC current ranges are specified from 5% of range to 100% of range.

<sup>2</sup>10 A continuous, 20 A for up to 30 seconds.

<sup>3</sup>Voltage Frequency is specified from 2 Hz to 100 kHz. Current Frequency is specified from 2 Hz to 30 kHz.

Battery life: 200 hours typical for alkaline

Size: (H x W x L): 4.3 cm x 9.0 cm x 18.5 cm

Lifetime Warranty

### ORDERING INFO

Fluke-175 Digital Multimeter  
 Fluke-177 Digital Multimeter  
 Fluke-179 Digital Multimeter

### RECOMMENDED ACCESSORIES 110 & 170 SERIES

Model	Description
TPAK	Meter hanging kit with magnet
C25	Soft vinyl carrying case
C510	Top grain leather carrying case
i 200	AC current clamp
TL223	Electrical test lead set

# WESCHLER INSTRUMENTS

## Meterman™ Digital Multimeters

### Wavetek® Heavy Duty DMMS

- Dust & Water Sealed
- Drop Proof to 10 Feet
- Cat III 1000V Rated
- Auto-Power Off

#### HD110B

- IP67 & MIL PRF 28800F Rated
- Best DMM for Electrical and Industrial Field Work
- Special Sealing for Environment and Water Proofing
- Extra Fusing and Protection from Accidental Overloads
- Voltage measuring to 1500VDC and 1000VAC
- Unique Live Voltage Safety Tester™
- Holster & Test Leads Included



▲ HD110B

#### SPECIFICATIONS

DC Voltage: 0.1 mV-1500V, ±0.1%  
 AC Voltage: 0.1 mV-1000V, ±0.75%  
 DC Current: 0.1 µA-10A, ±0.35%  
 AC Current: 0.1 µA-10A, ±0.9%  
 Resistance: 0.1Ω-20MΩ, ±0.5%  
 Safety Tester: 24, 50, 120, 240, 480V  
 Diode Test and Continuity Beeper

#### HD115B

- Includes all of HD110B, Plus:
  - Six Capacitance Measuring Ranges
  - Button selectable Max/Min, AC Peak and Probe Hold
  - Exclusive, Best “Digi-Glow” Backlight



▲ HD115B

#### SPECIFICATIONS

Capacitance: 100pF-20mF, ±1.0%

#### HD160B

- Heavy-Duty, Rugged Autoranger
- 10000-Count w/Bargraph
- True-rms measuring
- “Digi-Glow” Backlight
- Menu Selectable Auto Max, Min, Rel, Probe Hold Modes
- Holster Included

#### SPECIFICATIONS

DC Voltage: 10 µV-1500V, ±0.1%  
 AC Voltage: 1 mV-1000V, ±1.5%  
 DC Current: 10 µA-40mA, 1 mA-10 A, ±0.75%  
 AC Current: 10 µA-40mA, 1 mA-10 A, ±1.75%  
 Resistance: 1Ω-40MΩ  
 Safety Tester: 24, 50, 120, 240, 480V  
 Diode Test and Continuity Beeper

#### ORDERING INFO

MM/HD110B Heavy Duty DMM  
 MM/HD115B Enhanced Heavy Duty DMM  
 MM/HD160B Autoranging TRMS DMM

## Extech Autoranging Multimeters

- Backlit 1" High LCD
- Resolution to 0.1mA
- CAT III - 600V Rating
- Audible & Visual Alerts
- Diode/Continuity Check
- Three Year Warranty
- Built-in IR thermometer with laser (450 & 470)

450 ▶



#### Model 450

- 2000 Count Full Scale
- 0.05% Basic DCV Accuracy
- IR Laser Thermometer
- MAX function



◀ 430

#### Model 430

- 4000 Count Full Scale
- TRMS AC
- 0.03% Basic DCV Accuracy
- Capacitance & Frequency
- Type K TC Temperature
- Relative Function

470 ▶



#### Model 470

- all of the Model 430 features plus
- IR Laser Thermometer

#### SPECIFICATIONS

##### Measurement Range

DCV	0.1mV to 600V
ACV	0.1mV to 600V
DCA	0.1mA to 20A
ACA	0.1mA to 20A
Ω	0.1Ω to 40MΩ (20MΩ on Model 450)

##### Models 430 & 470:

Capacitance	0.01nF to 100µF
Frequency	0.001Hz to 10MHz

Duty cycle 0.1 to 99.9%

Type K TC -4 to 1382°F (-20 to 750°C)

IR Thermometer (Models 450 & 470):

Range -4 to 518°F (-20 to 270°C)

Spot size 8:1

Emissivity 0.95

All models supplied with CAT III test leads, multi-position tilt stand and velcro strip for hanging, protective holster with test lead holder, bead wire temperature probe (except Model 450) and battery.

#### ORDERING INFORMATION

EX450	Multimeter with IR Thermometer
EX430	TRMS Multimeter
EX470	TRMS Multimeter w/ IR Thermometer
EX/CA300	300A AC clamp-on adapter
EX/380905	2000A AC/DC clamp-on adapter
EX/409996	Pouch carrying case

# WESCHLER INSTRUMENTS

## Triplett Multimeters



### Model 1101-A Compact DMM

- 3 1/2 Digit, 1999 max. reading
- Backlit Display
- AC/DC Voltage to 500V
- AC/DC Current to 10A
- Temperature Test (Probe Included)
- Resistance to 20MΩ
- Continuity Test
- Diode Check
- Transistor Check

- Data Hold
- CAT I and II Rated
- Overload Protected
- Red Rubber Boot w/ Stand
- Double Insulated Case
- Includes Safety Test Leads w/Screw-on Alligator Clips
- Basic DCV Accuracy 0.5%
- Three Year Warranty



### Model 9005-A / 9015-A Digital Multimeters

- 3 1/2 Digit, 1999 max. reading
- HUGE, 1.15" High Digital Display
- DC Voltage to 1000V
- AC Voltage to 750V
- AC/DC Current to 10A
- Resistance to 200MΩ
- Continuity Test & Diode Check
- Temperature Test - Probe Included (9015)
- Frequency & Capacitance Test (9015)

- Transistor Check
- Data Hold
- CAT I, II, and III Rated
- Overload Protected
- Red Rubber Boot w/ Stand
- Double Insulated Case
- Carrying Strap
- Includes Safety Test Leads w/Screw-on Alligator Clips
- Basic DCV Accuracy 0.5%
- Three Year Warranty



### Model 2030-C Autoranging Pocket-Sized DMM

- 3 3/4 Digit, 4000 count display
- AC/DC Voltage to 600V
- AC/DC Current to 400mA
- Resistance to 40MΩ
- Capacitance Test to 100μF
- Frequency Range to 10KHz
- Continuity Beeper

- Diode Check
- Duty Cycle
- Data / Range Hold
- CAT II 600V Rated on Voltage
- Auto Power Off
- Hard Cover Which Forms Stand
- Basic DCV Accuracy 1.0%
- One Year Warranty

Also Available:

**Model 9045 True RMS Autoranging DMM** with 6000 count backlit display. Includes temperature, capacitance, frequency, duty cycle, min/max.

NEW



### Model 9300-A ACA Clamp-On Meter

- 3 1/2 LCD with max. reading of 1999
- DC & AC Voltage Measurement to 600V
- AC Current Measurement to 600A
- Resistance Measurement to 200Ω
- Average AC Responding Measurements
- Diode & Continuity Test

- Manual Ranging
- Data Hold
- Tested to IEC 1010 Category III 600V
- Clamp fits one 750 MCM or two 350 MCM cables
- Basic ACV Accuracy 1.0%
- Backlit Display
- Three Year Warranty

### Model 9310-A AC/DC Clamp-On Meter

All of the 9300-A features plus:

- DC current to 1000A
- Resistance to 40MΩ
- Frequency to 10MHz
- Capacitance, duty cycle & temperature
- Autoranging

### Model 9320-A TRMS AC/DC Clamp-On Meter

TRMS version of the 9310-A

Each Model 9300 Series Clamp-On Meter includes a zippered vinyl carrying case, test leads, screw-on alligator clips, battery and manual.

## ORDERING INFORMATION

TR/1101 Model 1101-A Compact DMM

TR/9005 Model 9005-A DMM

TR/9015 Model 9015-A 10 Amp DMM

TR/9045 Model 9045 True RMS Autoranging DMM

TR/2030 Model 2030-C Autoranging DMM

TR/9300 Model 9300-A Clamp-On ACA Meter

TR/9310 Model 9310-A AC/DC Clamp-On Meter

TR/9220 Model 9320-A True RMS AC/DC Clamp-On Meter

TR/10-4275 Universal DMM Carry Case

# WESCHLER INSTRUMENTS

## Fluke Clamp Meters

Seven new models offer an impressive array of innovative features with current ranges up to 1000A. Choose the model that matches the jobs you do.

- Auto shut-off maximizes battery life so the meter works when you need it
- Small body and jaws fit perfectly in your hand and into tight places
- Large, backlit display (on most models) is easy to see
- In-rush current function (on most models) for measuring starting current for motors, lighting, etc.
- Improved low current measurement accuracy from new microprocessor technology
- Meter controls are positioned so current measurements can be done with one hand (index finger on clamp opening lever and thumb on rotary switch)
- Handy display hold keeps measurements on the display
- CAT III – 600V Rating



337 ▲

321 ▲



### SPECIFICATIONS (@ 23°C ± 5°C RH 0-90%)

	Fluke 333	Fluke 334	Fluke 335	Fluke 336	Fluke 337	Fluke 321	Fluke 322
AC amps							
Range	0-400.0A	0-600.0A	0-600.0A	0-600.0A	0-999.9A	0-400.0A	40.00A/400.0A
Accuracy	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)	1.8% ± 5 counts (50/60Hz)	1.8% ± 5 counts (50/60Hz)
Crest factor	-	-	2.4 @ 500A 2.0 @ 600A add 2% for C.F.>2	3 @ 500A 2.5 @ 600A add 2% for C.F.>2	3 @ 500A 2.5 @ 600A 1.42 @ 1000A add 2% for C.F.>2	-	-
AC response	Averaging	Averaging	True-rms	True-rms	True-rms	Averaging	Averaging
DC amps							
Range	-	-	-	0-600.0A	0-999.9A	-	-
Accuracy	-	-	-	2% ± 3 counts	2% ± 3 counts	-	-
AC volts							
Range	0-600.0V	0-600.0V	0-600.0V	0-600.0V	0-600.0V	0-600.0V	0-600.0V
Accuracy	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)	1.2% ± 5 counts (50-400Hz)	1.2% ± 5 counts (50-400Hz)
AC Response	Averaging	Averaging	True-rms	True-rms	True-rms	Averaging	Averaging
DC volts							
Range	0-600.0V	0-600.0V	0-600.0V	0-600.0V	0-600.0V	-	400.0V/600V
Accuracy	1% ± 5 counts	1% ± 5 counts	1% ± 5 counts	1% ± 5 counts	1% ± 5 counts	-	1% ± 5 counts
Ohms							
Range	0-600.0Ω	0-600.0Ω 600-6000Ω	0-600.0Ω 600-6000Ω	0-600.0Ω 600-6000Ω	0-600.0Ω 600-6000Ω	0-400.0Ω	0-400.0Ω
Accuracy	1.5% ± 5 counts	1.5% ± 5 counts	1.5% ± 5 counts	1.5% ± 5 counts	1.5% ± 5 counts	1% ± 5 counts	1% ± 5 counts
Continuity	≤ 30Ω	≤ 30Ω	≤ 30Ω	≤ 30Ω	≤ 30Ω	≤ 30Ω	≤ 30Ω
Frequency							
Range	-	-	-	-	5-400 Hz	-	-
Accuracy	-	-	-	-	0.5% ± 5 counts	-	-
Trigger Level	-	-	-	-	10-100 Hz ≥ 5A 5-10 Hz ≥ 10A 100-400 Hz ≥ 10A	-	-
Inrush Integration time	-	100 mS	100 mS	100 mS	100 mS	-	-
MIN/MAX	-	-	-	-	●	-	-
Backlight	-	●	●	●	●	-	-
Display Hold	●	●	●	●	●	●	●
Size		9.4 x 3.1 x 1.6"		9.9 x 3.1 x 1.6"		7.5 x 2.5 x 1.4"	
Max. Wire Diameter		1.2"		1.2"		1"	

### ACCESSORIES

#### Included accessories

Soft Carrying Case, TL75 Test Leads, (2) AA Alkaline Batteries, Coated Instruction Card & Safety Information Sheet

### ORDERING INFORMATION

Fluke 321	AC Clamp Meter
Fluke 322	AC/DC Clamp Meter
Fluke 333	400A AC Averaging Clamp Meter
Fluke 334	600A AC Averaging Clamp Meter
Fluke 335	400A AC TRMS Clamp Meter
Fluke 336	600A AC/DC TRMS Clamp Meter
Fluke 337	1000A AC/DC TRMS Clamp Meter

Operating Temperature: -10°C to 50°C (14 °F to 122 °F)

Temperature De-rating: Add 0.1 x specified accuracy for each °C above 28 °C or below 18 °C

Altitude: 2,500 meters for 330 series, 2000 meters for 320 series

Battery Life: Alkaline - approximately 150 continuous hours for 330 series, 100 hours for 320 series

Storage Temperature: -40 °C to 60 °C (-40 °F to 140 °F) for 330 series, -30 °C to 60 °C (-22 °F to 140 °F) for 320 series

Warranty: 3 years on 330 series, 2 years on 320 series

# WESCHLER INSTRUMENTS

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## Yokogawa Clamp-On Testers

### AC Current CL100 Series

- AC Current to 2000A
- AC Voltage Measurement
- Resistance / Continuity (CL130 & CL150)
- Data Hold
- IEC CAT III

**CL130** ▶



### AC/DC Current CL200 Series

- AC & DC Current to 2000A
- AC & DC Voltage Measurements
- Resistance / Continuity
- TRMS & Frequency (CL235 & CL255)
- Peak / Data Hold

**CL250** ▶



### AC Leakage Current CL300 Series

- AC Current to 1000A
- AC Leakage with 10µA Resolution
- Wide Jaw Opening
- AC & DC Recorder Outputs (CL360)
- Peak / Data Hold

**CL360** ▶



### ORDERING INFORMATION

YE/CL120	200A AC Clamp-On Tester
YE/CL130	600A AC Multi-Function Clamp-On Tester
YE/CL135	600A AC TRMS Multi-Function Clamp-On Tester*
YE/CL150	2000A AC Multi-Function Clamp-On Tester
YE/CL220	300A AC/DC Clamp-On Tester
YE/CL235	600A AC/DC TRMS Multi-Function Clamp-On Tester
YE/CL250	2000A AC/DC Multi-Function Clamp-On Tester
YE/CL255	2000A AC/DC TRMS Multi-Function Clamp-On Tester
YE/CL320	200A AC Clamp-On Leakage Tester
YE/CL340	400A AC Clamp-On Leakage Tester
YE/CL360	1000A AC Clamp-On Leakage Tester

\*same features as CL130, except TRMS

Limited Lifetime Warranty on all Models

Model No.	Display	DC Current	AC Current	DC Voltage	AC Voltage	Resistance	Functions						Jaw opening capacity	Rating	
							TRMS	Frequency	Continuity Check	Peak Hold	Data Hold	Recorder Output			
CL120	2000	-	20/200A (2 ranges)	-	300V (1 range)	-	-	-	-	-	-	24mm 0.95"	CAT III 300V		
CL130	2000	-	200/600A (2 ranges)	-	200/600V (2 ranges)	200Ω (1 range)	-	-	•	-	•	33mm 1.30"	CAT III 600V		
CL150	4000	-	400/2000A (2 ranges)	40/400/750V (3 ranges)	40/400/750V (3 ranges)	400/4000/40k/400kΩ (4 ranges)	-	-	•	-	•	55mm 2.16"	CAT III 600V CAT II 1000V		
CL220	4000	40/300A (2 ranges)	40/300A (2 ranges)	-	-	-	-	-	-	-	•	24mm 0.95"	CAT III 300V		
CL235	4000	400/1000A (2 ranges)	400/600A (2 ranges)	40/400/600V (3 ranges)	40/400/600V (3 ranges)	400/4000Ω (2 ranges)	•	•	•	•	•	33mm 1.30"	CAT III 600V		
CL250	4000	400/2000A (2 ranges)	400/2000A (2 ranges)	40/400/1000V (3 ranges)	40/400/750V (3 ranges)	400/4000Ω (2 ranges)	-	-	•	•	-	•	55mm 2.16"	CAT III 600V CAT II 1000V	
CL255	4000	400/2000A (2 ranges)	400/2000A (2 ranges)	40/400/1000V (3 ranges)	40/400/750V (3 ranges)	400/4000Ω (2 ranges)	•	•	•	•	•	•	55mm 2.16"	CAT III 600V CAT II 1000V	
CL320	2000	-	20/200mA 200A (3 ranges)	-	-	-	-	-	-	-	•	24mm 0.95"	CAT III 300V		
CL340	4000	-	40/400mA 40/400A (4 ranges)	-	-	-	-	-	-	-	•	•	40mm 1.57"	CAT III 300V	
CL360	2000	-	200mA 2/20/200/1000A (5 ranges)	-	-	-	-	-	-	-	•	•	•	68mm 2.68"	CAT III 300V

# WESCHLER INSTRUMENTS

## Ideal Clamp Meters

Backlit TightSight™ bottom display for viewing in dark, bright, or tight locations.

- 600A & 1000A models
- Two backlit LCD displays
- Voltage-presence warning on all functions
- Tapered jaws with hook tip
- Max/min
- Peak max/min (1ms)
- Audible continuity
- Selectable auto power off
- Data hold
- Low battery indicator
- Hinged rubber cover protects end display
- CATIV- 600V, CATIII-1000V rating



61-772

**NEW**

### SPECIFICATIONS – 770 SERIES

Jaw Size 2" (51 mm)

Range	61-772	61-774	Accuracy
AC Current	400.0/1000 A		1.7%
DC Current	--	400.0/1000 A	1.5%
AC Voltage	400.0m/4.000/40.00/400.0/750 V		1.2%
DC Voltage	400.0m/4.000/40.00/400.0/1000 V		0.5%
Resistance	400.0/4.000k/40.00k/400.0k/4.000M/10.00M Ω		1.0%
Capacitance	--	4.000μ/40.00μ 400.0μ/4.000m F	3.0%

### ORDERING INFORMATION

Includes leads, alligator clip and case

SP/61-772	1000AAC TRMS Clamp Meter
SP/61-774	1000AAC TRMS Clamp Meter w/ DC Current, Capacitance
SP/61-764	600AAC Clamp Meter
SP/61-766	600AAC TRMS Clamp Meter w/ Capacitance, Frequency, 40A Range
SP/61-768	600AAC TRMS Clamp Meter w/ DC Current

### SPECIFICATIONS – 760 SERIES

Jaw Size 1.42" (36 mm)

Range	61-764	61-766	61-768	Accuracy
AC Current	400.0/600 A	40.00/400.0/600 A	400.0/600 A	1.7%
DC Current	--	--	400.0/600 A	1.5%
AC Voltage	400.0m/4.000/40.00/400.0/750 V			1.2%
DC Voltage	400.0m/4.000/40.00/400.0/1000 V			0.5%
Resistance	400.0/4.000k/40.00k/400.0k/4.000M/10.00M Ω			1.0%
Capacitance	--	4.000μ/40.00μ 400.0μ/4.000m F	--	3.0%
Frequency	--	0.020k to 0.400k Hz Sensitivity is 20-100 Hz (≥ 5A) 100-400Hz (≥ 10A)	--	0.1%

## Megger Clampmeters

**MULTI-CORE CLAMP METER**



- Measure single, two or three core cables
- No need to split wires
- Cable centering clamp
- Backlit display

MMC850

### SPECIFICATIONS

AC Amps	Single-Core Mode	Multi-Core Mode
Mode:	Single-Core Mode	Multi-Core Mode
Range:	200A	100A
Resolution:	0.1A	0.1A
Accuracy:	±1.5% ±3d	±5% ±10d
Frequency:	45Hz - 1kHz	45Hz - 400Hz
Main Jaw Capacity:	13mm (0.51")	
Inner Jaw Capacity:	22mm (0.87")	
Display:	3½ digit, 2000 count	
Operating Temp.:	0°C to +40°C, <80% RH	
Storage Temp.:	-20°C to +60°C, <70% RH	
Battery:	9V Alkaline	
Battery Life:	180hrs typical	
Dimensions:	8.94" x 3.7" x 1.75" (227 x 94 x 44.5mm)	
Safety:	IEC1010-2-032, CAT III 600V	

**LEAKAGE CLAMP METER**



- 0.01mA resolution for measuring earth leakage currents
- Amp ranges for standard current measurements
- Analog bargraph display for trending
- 40mm jaw opening

DCM300E

### SPECIFICATIONS

Ranges:	30mA/300mA/30A/300A (50/60Hz)
Accuracy:	30/300mA: ±1.2% rdg ±5d 0-200A: ±1.2% rdg ±5d 200-250A: ±3.0% rdg ±5d 250-300A: ±5.0% rdg ±5d
Circuit Voltage:	600V AC max.
Jaw Capability:	40mm (1.57")
Display:	3½ digit, 3200 count
Data Hold:	Indicated by DH in display
Operating Temp.:	0°C to +40°C, <80% RH
Storage Temp.:	-20°C to +60°C, <70% RH
Battery:	2 LR44 button cells
Dimensions:	2.5" x 7" x 0.9" (64 x 176 x 23mm)
Safety:	300V phase to earth, 500V phase to phase CAT III or 600V CAT II

### ORDERING INFORMATION

ME/MMC850	Multi-Conductor AC Clamp Meter with carrying case
ME/DCM300E	Leakage Clampmeter with carrying case

# WESCHLER INSTRUMENTS

## Extech Clamp Meters

### 1000A AC Clamp Meter & Phase Rotation Tester

- AC current measurements to 1000A with resolution of 10mA
- Jaw opening 1.6" (40mm)
- Identifies phase sequence for 3Ø motor installations
- Functions include voltage capacitance, resistance and frequency
- Peak hold captures and holds the maximum current
- Data hold freezes the displayed value
- Complete with three test leads, 9V battery and carrying case



▲ Model 380974

### 400A True RMS AC/DC Mini Clamp Meter

- True RMS measurements with 1mA AC resolution
- Non-contact frequency measurements to 1000kHz through the clamp
- Fast 40 segment bargraph
- One touch auto zero
- Min/Max
- Data hold and auto power off
- Complete with wrist strap, 2 AA batteries and carrying case



▲ Model 380947

### 800A Clamp Meters

- AC/DC Current, AC/DC Voltage, Resistance, Frequency, Capacitance, Temperature, Diode Test and Continuity
- True RMS models
- 1.2" (30mm) circular jaw opening
- Backlit LCD
- Peak, Data Hold, Auto power off
- DC Current with Zero (EX730)
- Complete with test leads, 9V battery, Type K bead wire probe (EX720, EX730) and carrying case

**NEW**



▲ Model EX730

### 200A AC/DC Mini Clamp plus MultiMeter

- High resolution to 10mA
- Measures voltage, resistance and frequency
- Fast 40 segment bargraph
- One touch auto zero for DC current measurements
- Min/Max
- Data hold and auto power off
- Complete with test leads, wrist strap, 2 AA batteries and carrying case



▲ Model 380941

### 30A True RMS AC/DC Mini Clamp

- Measure low AC/DC current with resolution to 1mA DC and 0.1mA AC
- Also measures voltage
- Fast 40 segment bargraph
- One touch auto zero for DC current measurements
- Min/Max
- Data hold and auto power off
- Complete with test leads, wrist strap, 2 AA batteries and carrying case



▲ Model 380942

## ORDERING INFORMATION

EX710	800A AC Clamp Meter
EX720	800A True RMS AC Clamp Meter
EX730	800A True RMS AC/DC Clamp Meter
EX/380974	1000A AC Clamp Meter & Phase Tester
EX/380947	400A TRMS AC/DC Mini Clamp Meter
EX/380941	200A AC/DC Mini Clamp Multimeter
EX/380942	30A TRMS AC/DC Clamp Multimeter
EX/380945	Mini AC/DC Multimeter Adapter

## SPECIFICATIONS

Model	380974	380947	380941	380942	710	720	730
AC Sensing:	Averaging	TRMS	Averaging	TRMS	Averaging	TRMS	TRMS
Display counts:	4000	4000	4000	4000	4000, backlit	4000, backlit	4000, backlit
Jaw size/ Cable size:	1.6" (41mm)	0.9" (23mm); 4/0 AWG	0.9" (23mm); 4/0 AWG	0.9" (23mm); 4/0 AWG	1.2" (30mm): 500MCM	1.2" (30mm): 500MCM	1.2" (30mm): 500MCM
AC Current:	40A, 400A, 1000A	4A, 40A, 100A, 400A	40A, 200A	400mA, 4A, 30A	800A	800A	800A
DC Current:	---	40A, 400A	40A, 200A	4A, 30A	---	---	800A
Max resolution:	0.01A	AC: 0.001A, DC: 0.01A	0.01A	AC: 0.1mA, DC: 0.001A	0.01A	0.01A	AC: 0.01A, DC: 0.1A
Basic AC/DC Accuracy:	±1.2%	AC: ±1.5%, DC: ±1.0%	±1.0%	±1.5%	±2.8%	±3%	AC: ±3%, DC: ±2.5%
AC/DC Voltage (Max. Res.):	AC: 600V (0.1V) Phase to 480V	---	400V (0.1V)	400V (1V)	600V (0.1mV)	600V (0.1mV)	600V (0.1mV)
Resistance (Max Res.):	40kΩ (10Ω)	---	400Ω (0.1Ω)	---	40MΩ (0.01Ω)	40MΩ (0.01Ω)	40MΩ (0.01Ω)
Capacitance (Max Res.):	400μF (1μF)	---	---	---	40mF (0.001nF)	40mF (0.001nF)	40mF (0.001nF)
Frequency (Max. Res.):	4kHz (1Hz)	1000kHz (0.01Hz)	1000kHz (0.01Hz)	---	4kHz (1Hz)	4kHz (1Hz)	4kHz (1Hz)
Temperatures (Type K):	---	---	---	---	---	-4 to 1832°F / -20 to 1000°C	-4 to 1832°F / -20 to 1000°C
Diode/Continuity:	Continuity	---	Continuity	---	Yes	Yes	Yes
Data Hold:	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Min/Max/Peak:	Peak	Min/Max	Min/Max	Min/Max	Peak	Peak	Peak
Safety Rating:	CAT III-600V	CAT III-300V	CAT III-300V	CAT III-300V	CAT III-600V	CAT III-600V	CAT III-600V