

## Quick Fact Sheet

# Agilent U1190 Series Clamp Meters

With the U1190 Series handheld clamp meters that are designed to help you work safer; it's time to retool your expectations on Agilent's handhelds.

Agilent's U1190 series clamp meters are packed with a wealth of features to help you work more efficiently and more safely. Housed in robust cases, each model comes with an innovative wire separator that helps you isolate and measure individual wires in a bundle. The built-in LED flashlight illuminates your test area and Vsense performs non-contact voltage detection. The clamp meters are also certified with both CAT III 600 V and CAT IV 300 V ratings to cover wider measurement categories.

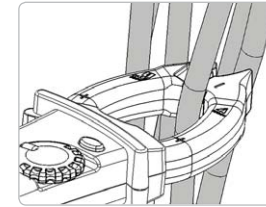
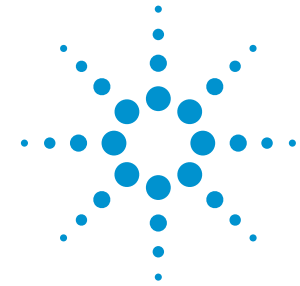
## Features

- Unique wire separator separates wires from a bundle
- Vsense performs non-contact voltage detection <sup>1</sup>
- Built-in LED flashlight illuminates test area <sup>1</sup>
- Current measurement up to 600 A <sup>2</sup>
- Digital multimeter (DMM) with Resistance, Capacitance <sup>1</sup>, DCV, ACV, DC $\mu$ A <sup>3</sup>, AC $\mu$ A <sup>3</sup>, Continuity and Diode test measurements
- CAT III 600 V / CAT IV 300 V safety rating

1. Only for U1192A, U1193A and U1194A.

2. Only for U1193A and U1194A.

3. Only for U1194A.



*The unique wire separator allows you to easily separate and measure a desired wire in a bundle.*

1. Unique wire separator to separate and clamp wires in a bundle
2. Data Hold, Min or Max recording
3. LCD display with maximum reading of 6,000 counts
4. Display backlight/built-in LED flashlight <sup>1</sup>



*The built-in flashlight provides illumination to the test area.*

5. DCV, ACV, DCA <sup>2</sup>, ACA and frequency <sup>1</sup> measurement capabilities
6. Resistance/Continuity measurements
7. Capacitance <sup>1</sup>/Diode test measurements
8. Vsense performs non-contact voltage detection <sup>1</sup>

1. Only for U1192A, U1193A and U1194A.

2. Only for U1194A.



**Agilent Technologies**

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## Key Specifications

	U1191A	U1192A	U1193A	U1194A
Basic features				
Counts	6,000	6,000	6,000	6,000
RMS method	Average responding	Average responding	True RMS	True RMS
Measurement range				
DC voltage	600 V	60 to 600 V	60 to 600 V	60 to 600 V
AC voltage	600 V	60 to 600 V	60 to 600 V	60 to 600 V
DC current	–	–	–	60 to 600 A
DC $\mu$ A current	–	–	–	60 to 600 $\mu$ A
AC current	400 A	60 to 400 A	60 to 600 A	60 to 600 A
AC $\mu$ A current	–	–	–	60 to 600 $\mu$ A
Resistance	600 $\Omega$ to 6 k $\Omega$	600 $\Omega$ to 60 k $\Omega$	600 $\Omega$ to 60 k $\Omega$	600 $\Omega$ to 60 k $\Omega$
Capacitance	–	600 $\mu$ F to 6 mF	600 $\mu$ F to 6 mF	600 $\mu$ F to 6 mF
Diode	1.5 V	1.5 V	1.5 V	1.5 V
Continuity	600 $\Omega$	600 $\Omega$	600 $\Omega$	600 $\Omega$
Temperature	–	–	–	K-type: -40 to 1200 $^{\circ}$ C
Frequency	–	99.99 Hz to 99.99 kHz	99.99 Hz to 99.99 kHz	99.99 Hz to 99.99 kHz
Data management				
Data hold	Yes	Yes	Yes	Yes
Null	Yes	Yes	Yes	Yes
MAX/MIN/AVG	Yes	Yes	Yes	Yes
Auto/Range	Yes	Yes	Yes	Yes
Other features				
Built-in LED flashlight	–	Yes	Yes	Yes
Vsense	–	Yes	Yes	Yes
Auto power OFF	Yes	Yes	Yes	Yes

## Key Specifications (continued)

	U1191A	U1192A	U1193A	U1194A
Safety and regulatory				
Over-voltage safety protection	CAT III 600 V / CAT IV 300 V	CAT III 600 V / CAT IV 300 V	CAT III 600 V / CAT IV 300 V	CAT III 600 V / CAT IV 300 V
EN/IEC 61010-1, CE, CSA compliance	Yes	Yes	Yes	Yes
General				
Operating temperature	-10 to 50 $^{\circ}$ C, 0 to 80% RH	-10 to 50 $^{\circ}$ C, 0 to 80% RH	-10 to 50 $^{\circ}$ C, 0 to 80% RH	-10 to 50 $^{\circ}$ C, 0 to 80% RH
Battery (included)	1.5 V	1.5 V	1.5 V	1.5 V
Battery life	200 hours	200 hours	200 hours	200 hours
Warranty	3 years	3 years	3 years	3 years
Dimensions (H x W x D)	225.0 x 77.1 x 38.6 mm	225.0 x 77.1 x 38.6 mm	238.0 x 77.1 x 38.6 mm	238.0 x 77.1 x 38.6 mm
Clamp opening	31 mm	31 mm	37 mm	37 mm
Clamping diameter	27 mm	27 mm	35 mm	35 mm

### Recommended service options

Additional two years of Return-to-Agilent warranty  
 Additional two years of Return-to-Agilent calibrations  
 For more information go to [www.agilent.com/find/removealldoubt](http://www.agilent.com/find/removealldoubt)

## Recommended accessories



**U1178A**  
Soft carrying case



**U1164A**  
Fine tip test probes



**U1162A**  
Alligator clips

### Standard shipped accessories

Standard shipped items include Certificate of Calibration (CoC), Quick Start Guide, K-type thermocouple (only for U1194A), test leads with 4-mm tips, 2 x 1.5 V alkaline batteries, and soft carrying case.

