

## CT-317 PHOTOVOLTAIC (PV) CURRENT CLAMP 1000 V, 2000 A

FOR SELF-CONSUMPTION INSTALLATIONS

FEATURES IMPEDANCE, CAPACITANCE, TEMPERATURE & FREQUENCY MEASUREMENTS, DIODE TEST AND USB DATA TRANSFER

Thanks to its specifications (1000 V, 2000 A), the CT-317 current clamp is perfect to work in self-consumption PV (photovoltaic) installations, both in private residential environments, buildings and other locations.

Just insert a microSD card in the memory slot to store measurement records with an user-definable time between samples of 2 to 7200 seconds. The system accepts cards of up to 32 GB (an 8 GB card is included).

The CT-317 current clamp has a built-in real-time clock to attach the day and time to the measurements, transfer them to the computer and process them with any compatible application.



RMS Micro

## **MEASUREMENTS INCLUDED IN THE CT-317 CURRENT CLAMP**

✓ DC/AC voltage: Up to 1000 V

✓ DC/AC current: Up to 2000 A

✓ Continuity test: Audible tone

✓ Diode test: Audible tone

✓ Impedance: Up to 60 MΩ

✓ Frequency: Up to 999.9 Hz

✓ Capacitance: Up to 600 µF

✓ Temperature: From -100 °C to 1300 °C (optional)

## **SPECIFICATIONS**

- ✓ Display: Backlighted LCD screen, 128x64 pixels
- ✓ Polarity: Automatic, on-screen indication
- ✓ **Datalogger:** Up to 32 GB of data (microSD storage)
- ✓ **Dimensions:** 108 (W.) x 280 (H.) x 47 (D.) mm

- ✓ Functions: HOLD, relative measurement, PK-PK
- ✓ Overrange: On-screen indication and statement in datalogger
- ✓ PC software: Incluided, to convert data to MS Excel
- ✓ Power supply: Batteries (2x1.5 V AA-size) or AC adapter



## CT-317 CURRENT CLAMP 1000 V, 2000 A

SPECIFICATIONS	CT-317 SELF-CONSUMPTION PHOTOVOLTAIC (PV) INSTALLATIONS CURRENT CLAMP 1000 V, 2000 A
Display	Dot matrix backlighted LCD screen (128x64 pixels)
Display functions	HOLD, relative measurement, peak-to-peak measurement
Polarity	Automatic: Positive by defauly and on-screen negative polarity indication
Overrange	(OL) or (-OL) is displayed, and "999" or "9999" is recorded the datalogger (overlooking the decimal point)
Analogue to Digital Conversor	6000 counts
Protection class	IEC1010 CAT III 1000 V, CAT IV 600 V
Max conductor diameter	50 mm
Clamps frequency response	From 40 Hz to 1 kHz
Datalogger	Measurements are stored in the microSD card (up to 32 GB)  Measurements are associated to its timestamp (MM/DD/YYYY HH:MM:SS)  Measurements can be exported to Microsoft Excel  Time between measurements from 2 to 7200 seconds  Supplying the instrument from its AC 9 V adaptor is recommended
DC voltage Scales Resolution Accuracy Overload protection	600mV / 6V / 60V / 600V / 1000V 0.1 mV / 0.001V / 0.01V / 0.1V / 1V 600 mV scale: ±(0.8% rdg. + 2 digits) / Other scales: ±(0.8% + 1 digit) / PK-PK: ±(5% + 30 digits) 1000 V
AC TRMS voltage Scales Resolution Accuracy Input impedance Overload protection	600mV / 6V / 60V / 600V / 1000V 0.1 mV / 0.001V / 0.01V / 0.1V / 1V ±(1% rdg. + 2 digits) / PK-PK: ±(5% + 30 digits) 10 MΩ 1000 V RMS
DC/AC TRMS current Scales Resolution Accuracy Overload protection	From 0.5 to 2000 A 0.1A / 1A 600 A scale: ±(1% rdg. + 12 digits) / 2000 A scale: ±(1% + 8 digits) / PK-PK: ±(5% + 30 digits) 2100 A with clamps
Impedance Scales Resolution Accuracy	$600\Omega / 6k\Omega / 600k\Omega / 600k\Omega / 60M\Omega$ $0.1\Omega / 0.001k\Omega / 0.01k\Omega / 0.1k\Omega / 0.001M\Omega / 0.01M\Omega$ $600~\Omega~scale: \pm (1\%~rdg. + 2~digits) / Other~scales: \pm (1.5\% + 2~digits)$
Diode test	Short/open circuit, pass/fail test
Continuity test	Audible tone when the impedance value is below 5 $\Omega$
Capacitance Scales Resolution Accuracy	6nF / 60nF / 600nF / 6μF / 60μF / 600μF 0.001nF / 0.01nF / 0.1nF / 0.001μF / 0.01μF / 0.1μF ±(3% rdg. + 5 digtis)
Frequency	From 40 to 999.9 Hz (0.1 Hz resolution). Accuracy ±(0.5% rdg. + 2 digits).
Temperature Scales Resolution Accuracy	Optional -100 to 199.9°C / 200 to 1300°C 0.1°C / 1°C ±(1% rdg. + 1°C) / ±(1% rdgt. + 2°C)
Power supply	2 AA-size 1,5 V batteries or 9 V AC adapter
Mechanical features	108 (W.) x 280 (H.) x 47 (H.) mm / 640 g, including batteries
Included accessories	Test leads, Crocodile clamps, USB cable, RS-232 cable, Measurement acquisicion software, Temperature probe (optional), 8 GB microSD card, carrying pouch, AC adapter

