

TECHNICAL DATA

# Fluke 378 Non-Contact Voltage True-rms AC/DC Clamp Meter with iFlex



## Key features

- Measure voltage and current with your clamp jaw
- Faster, safer testing - all without touching a live wire - using FieldSense™ technology
- Power quality indicator shows whether equipment or power line is faulty
- Complete 3-phase voltage and current tests in 3 quick steps

## Product overview: Fluke 378 Non-Contact Voltage True-rms AC/DC Clamp Meter with iFlex

Voltage and current measurements with FieldSense™ technology

The Fluke 378 true-rms clamp meter uses FieldSense™ technology to make testing faster and safer, all without contacting a live conductor. You get accurate voltage and current measurements through the clamp jaw. Simply clip the black test lead to any electrical ground, put the clamp jaw around the conductor and see reliable, accurate voltage and current values on the display.

Power quality indicator shows whether a problem is in the equipment or the power line

The 378 clamp meter includes a unique PQ function that senses power quality issues automatically. When making

FieldSense measurements, the 378 will detect and display power quality issues, relating to current, voltage, power factor or any combination of the three. Now you can quickly determine if an upstream supply problem exists, or if there is a downstream equipment problem.

### Complete 3-phase measurements in quick, easy steps

- Complete 3-phase voltage and current tests in 3 easy steps
- Full set of phase-to-ground and phase-to-phase values calculated and shown on the meter
- No more hand-written notes or complicated math.

### Measure extremely high current with iFlex® probe

The included iFlex flexible current probe lets you measure ac current as high as 2500 A. Crowded wiring cabinets and large conductors are easily measured with the iFlex probe.

### Easy to see, easy to use with included tools

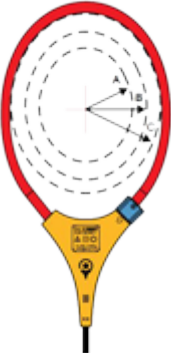
Your job will get easier when you use the 378 clamp meter. The display turns green when a stable FieldSense measurement is detected. Visual Continuity also provides a bright green screen for easy detection of continuity in noisy work areas.

## Specifications: Fluke 378 Non-Contact Voltage True-rms AC/DC Clamp Meter with iFlex

General specifications	
General Maximum Voltage between any Terminal and Earth Ground	
	1000 V
Battery	Type
	Life
	2 AA IEC LR6 alkaline
	200 hour
Display	Dual readout
Automatic Power Off	20 minutes
Electrical	
AC Current: Jaw	
Range	999.9 A
Resolution	0.1 A
Accuracy	2 % ±5 digits (45 Hz to 66 Hz)
Crest Factor (50/60 Hz)	3 @ 500 A 2.5 @ 600 A 1.42 @ 1000 A Add 2 % for C.F. >2
AC Current: Flexible Current Probe	
Range	2500 A
Resolution	1 A (□2500 A) 0.1 A (□999.9 A)
Accuracy	3 % ±5 digits (5 Hz to 500 Hz)

Crest Factor (50/60Hz)	3.0 at 1100 A 2.5 at 1400 A 1.42 at 2500 A Add 2 % for C.F. >2
------------------------	---

**Position Sensitivity**

	Distance from Optimum	i2500-10 Flex	i2500-18 Flex	Error
	A	0.5 in (12.7 mm)	1.4 in (35.6 mm)	± 0.5 %
	B	0.8 in (20.3 mm)	2.0 in (50.8 mm)	± 1.0 %
	C	1.4 in (35.6 mm)	2.5 in (63.5 mm)	± 2.0 %

Measurement uncertainty assumes centralized primary conductor at optimum position, no external electrical or magnetic field, and within operating temperature range.

**DC Current**

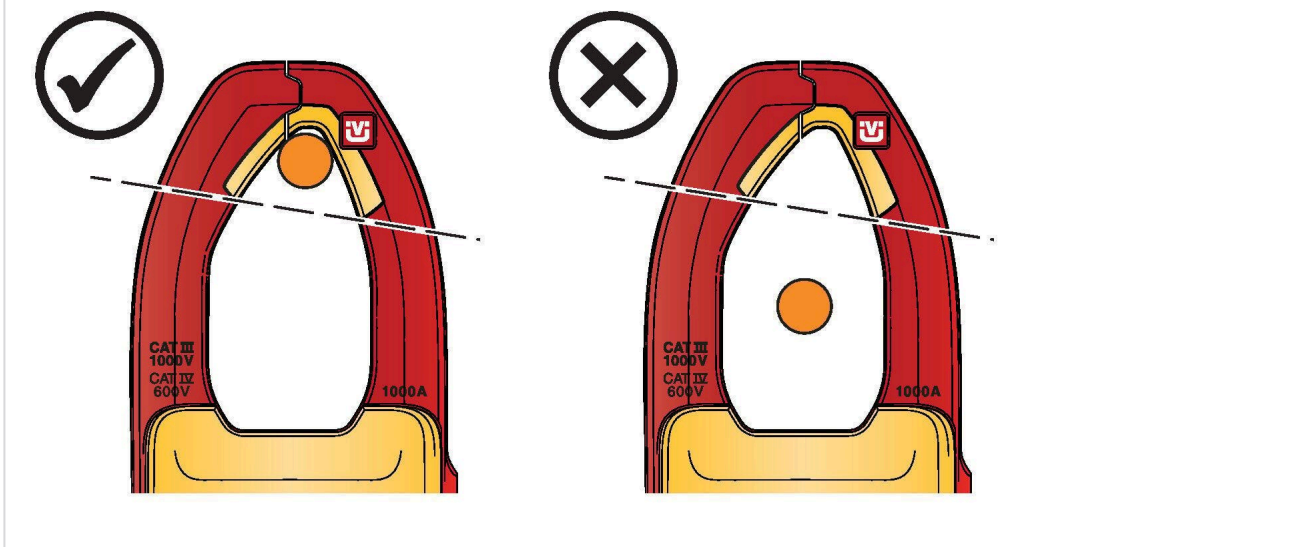
Range	999.9 A
Resolution	0.1 A
Accuracy	2 % ±5 digits <sup>1</sup>

<sup>[1]</sup>When using the ZERO function to compensate for offsets

**AC Voltage: Field Sense**

Range	1000 V	
Resolution	1 V (□1000V)	
Accuracy	□4/0 AWG	3 % ±5 digits (45 Hz to 66 Hz)
	□4/0 AWG	5 % ±5 digits (45 Hz to 66 Hz)

Position wire as close as possible to jaw opening (see illustration).



**AC Voltage: Test Leads**

Range	600.0 V 1000 V
Resolution	0.1 V (□600.0 V) 1 V (□1000 V)
Accuracy	1 % ±5 digits (20 Hz to 500 Hz)
<b>DC Voltage</b>	
Range	600.0 V 1000 V
Resolution	0.1 V (□600.0 V) 1 V (□1000 V)
Accuracy	1 % ±5 digits
<b>mV dc</b>	
Range	500.0 mV
Resolution	0.1 mV
Accuracy	1 % ±5 digits
<b>Amps Frequency: Jaw</b>	
Range	45 Hz to 66 Hz
Resolution	0.1 Hz
Accuracy	0.5 % ±5 digits
Trigger Level	5 Hz to 10 Hz, □10 A 10 Hz to 100 Hz, □ 5 A 100 Hz to 500 Hz, □ 10 A
<b>Amps Frequency: Flexible Current Probe</b>	
Range	5.0 Hz to 500.0 Hz
Resolution	0.1 Hz
Accuracy	0.5 % ±5 digits
Trigger Level	5 Hz to 20 Hz, □25 A 20 Hz to 100 Hz, □20 A 100 Hz to 500 Hz, □25 A
<b>Resistance</b>	
Range	60.00 kΩ 6000 Ω 600.0 Ω
Resolution	0.1 Ω (□600.0 Ω) 1 Ω (□6000 Ω) 10 Ω (□60.00 kΩ)
Accuracy	1 % ±5 digits
<b>Capacitance</b>	
Range	1000 μF
Resolution	0.1 μF (□100.0 μF) 1 μF (□1000 μF)

Accuracy	1 % ±4 digits	
<b>Mechanical</b>		
Size (L x W x H)	274 mm x 86 mm x 47 mm	
Weight (with Batteries)	463 g	
Jaw Opening	34 mm	
Flexible Current Probe Diameter	7.5 mm	
Flexible Current Probe Cable Length (head to electronics connector)	1.8 m	
Rogowski Coil Length	450 mm	
<b>Environmental</b>		
Operating Temperature	-10 °C to 50 °C	
Storage Temperature	-40 °C to 60 °C	
Operating Humidity (without condensation)	Non condensing (<10 °C) □90 % RH (10 °C to 30 °C) □75 % RH (30 °C to 40 °C) □45 % RH (40 °C to 50 °C)	
Temperature Coefficients	Add 0.1 x specified accuracy for each degree C >28 °C or <18 °C	
Ingress Protection	IEC 60529: IP30 (jaw closed)	
Operating Altitude	2000 m	
Storage Altitude	12 000 m	
Electromagnetic Compatibility (EMC)	International	IEC 61326-1: Portable Electromagnetic Environment IEC 61326-2-2, CISPR 11: Group 1, Class B
	<i>Group 1: Equipment has intentionally generated and/or uses conductively-coupled radio frequency energy that is necessary for the internal function of the equipment itself.</i>	
	<i>Class B: Equipment is suitable for use in domestic establishments and in establishments directly connected to a low voltage power supply network which supplies buildings used for domestic purposes. Emissions that exceed the levels required by CISPR 11 can occur when the equipment is connected to a test object.</i>	
	Korea (KCC)	Class A equipment (Industrial Broadcast & Communications Equipment)
		<i>Class A: Equipment meets requirements for industrial electromagnetic wave equipment and the seller or user should take notice of it. This equipment is intended for use in business environments and not to be used in homes.</i>
USA (FCC)	47 CFR 15 subpart B. This product is considered an exempt device per clause 15.103.	
<b>Safety</b>		
General	IEC 61010-1: Pollution degree 2	
Measurement	IEC 61010-2-032: CAT III 1000 V / CAT IV 600 V IEC 61010-2-033: CAT III 1000 V / CAT IV 600 V	



Current Clamp for Leakage Current Measurements	IEC 61557-13: Class 2, $\pm 30$ A/m
--	-------------------------------------

**Fluke.** *Keeping your world up and running.®*

**Authorised Distributor:**



46, Jalan SS 22/21, Damansara Jaya,  
47400 Petaling Jaya,  
Selangor Darul Ehsan, Malaysia.  
Email: [ampmech@ampmech.com](mailto:ampmech@ampmech.com)  
Website: [www.ampmech.com](http://www.ampmech.com)

**Fluke Electronics (Malaysia) Sdn Bhd**

Suite D-3A-4, Block D  
SouthGage Commercial Centre, No2  
Jalan Dua Off Jln Chan Sow Lin  
55200 KL  
Malaysia  
Email: [info.asean@fluke.com](mailto:info.asean@fluke.com)  
[www.fluke.com/my](http://www.fluke.com/my)

©2025 Fluke Corporation. Specifications subject to  
change without notice.

10/2025

**Modification of this document is not permitted  
without written permission from Fluke  
Corporation.**