

## Clamp meter

### ➤ **Fluke 376 True RMS AC/DC Clamp Meter with iFlex®**

You can measure around awkward sized conductors with the Fluke 376 True RMS Clamp Meter with iFlex®, expanding your measurement range to 2500 A AC. With True RMS voltage and current measurements, the Fluke 376 can read up to 1000 V and 1000 A in both AC and DC modes.

## 1. Fluke 376 True RMS AC/DC Clamp Meter with iFlex®



### ➤ Key Features

- Flex® Flexible Current Probe expands the measurement range to 2500 A AC
- CAT IV 600 V, CAT III 1000 V
- True RMS AC voltage and current for accurate measurements on non-linear signals
- Min, max, average and Inrush recording to capture variations automatically
- Integrated low pass filter and state-of-the-art signal processing allows for use in noisy electrical environments while providing stable readings
- Proprietary Inrush measurement technology to filter out noise and capture motor starting current exactly as the circuit protection sees it
- Ergonomic design fits in your hand and can be used while wearing protective equipment
- Large, easy to read backlight display automatically sets the correct measurement range so you do not need to change the switch positions while taking a measurement
- Three-year warranty
- Soft Carrying Case
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### Electrical Specifications

#### AC Current via Jaw

Range	<b>376</b>	600.0 A 999.9 A
Resolution		0.1 A
Accuracy		2% ± 5 digits (10-100 Hz) 2.5% ± 5 digits (100-500 Hz)
Crest Factor (50/60 Hz)		3 @ 500 A (375 and 376 only) 2.5 @ 600 A

	1.42 @ 1000 A (376 only) Add 2% for C.F. > 2
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**AC Current via Flexible Current Probe**

Range	2500 A
Resolution	376
Accuracy	3% $\pm$ 5 digits (5 – 500 Hz)
Crest Factor (50/60Hz)	3.0 at 1100 A (375 and 376 only) 2.5 at 1400 A 1.42 at 2500 A Add 2% for C.F. > 2

Distance from Optimum	i2500-10 Flex	i2500-18 Flex	Error
	A	0.5 in (12.7 mm)	$\pm$ 0.5%
	B	0.8 in (20.3 mm)	$\pm$ 1.0%
	C	1.4 in (35.6 mm)	$\pm$ 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	376	600.0 A 999.9 A
Resolution		0.1 A
Accuracy		2% $\pm$ 5 digits

**AC Voltage**

Range	<b>376</b>	600.0 V 1000 V
Resolution	<b>376</b>	0.1 V 0.1 V ( $\leq$ 600.0 V) 1 V ( $\leq$ 1000 V)
Accuracy		1.5% $\pm$ 5 digits (20 – 500 Hz)

**DC Voltage**

Range	<b>376</b>	600.0 V 1000 V
Resolution	<b>376</b>	0.1 V 0.1 V ( $\leq$ 600.0 V) 1 V ( $\leq$ 1000 V)
Accuracy		1% $\pm$ 5 digits

**mV dc**

Range	<b>376</b>	500.0 mV
Resolution		0.1 mV
Accuracy		1% $\pm$ 5 digits

**Frequency via Jaw**

Range	<b>376</b>	5.0 - 500.0 Hz
Resolution		0.1 Hz
Accuracy		0.5% $\pm$ 5 digits
Trigger Level		5 – 10 Hz, $\geq$ 10 A
		10 – 100 Hz, $\geq$ 5 A
		100 – 500 Hz, $\geq$ 10 A

**Frequency via Flexible Current Probe**

Range	<b>376</b>	5.0 - 500.0 Hz
Resolution		0.1 Hz
Accuracy		0.5% $\pm$ 5 digits
Trigger Level		5 – 20 Hz, $\geq$ 25 A
		20 – 100 Hz, $\geq$ 20 A
		100 – 500 Hz, $\geq$ 25 A
<b>Resistance</b>		
Range	<b>376</b>	6000 $\Omega$ 60 k $\Omega$
Resolution	<b>376</b>	0.1 $\Omega$ ( $\leq$ 600 $\Omega$ ) 1 $\Omega$ ( $\leq$ 6000 $\Omega$ ) 10 $\Omega$ ( $\leq$ 60 k $\Omega$ )
Accuracy		1% $\pm$ 5 digits
<b>Capacitance</b>		
Range		1000 $\mu\text{F}$
Resolution		0.1 $\mu\text{F}$ ( $\leq$ 100 $\mu\text{F}$ ) 1 $\mu\text{ F}$ ( $\leq$ 1000 $\mu\text{F}$ )
Accuracy		1% $\pm$ 4 digits
<b>Mechanical Specifications</b>		
Size (L x W x H)		246 mm x 83 m x 43 mm
Weight		388 g
Jaw Opening		34 mm
Flexible Current Probe Diameter		7.5 mm

Flexible Current Probe Cable Length (head to electronics connector)	1.8 m
<b>Environmental Specifications</b>	
Operating Temperature	10°C – +50°C
Storage Temp	-40°C – +60°C
Operating Humidity	Non condensing (< 10 °C) ≤ 90% RH (at 10°C – 30°C) ≤ 75% RH (at 30°C – 40°C) ≤ 45% RH (at 40°C – 50°C)
Operating Altitude	3000 meters
Storage Altitude	12,000 meters
EMC	EN 61326-1:2006
Temperature Coefficients	Add 0.1 x specified accuracy for each degree C above 28°C or below 18°C
<b>Safety Specifications</b>	
Safety Compliance	CAN/CSA-C22.2 No. 61010-1-04 ANSI/UL 61010-1:2004 ANSI/ISA-61010-1 (82.02.01):2004 EN/IEC 61010-1:2001 to 1000V Measurement Category (CAT) III 600V Measurement Category (CAT) IV Pollution Degree 2 EN/IEC 61010-2-032:2002 EN/IEC 61010-031:2002+A1:2008
Agency Approvals	
Batteries	2 AA, NEDA 15A, IEC LR6