

## MW3518

### Clamp Meter 2000A TRMS AC + DC Dedicated to the inspection of photovoltaic and industrial installations

The MW3518 multimeter clamp is a multifunction clamp allowing to realize TRMS AC+DC measurements in current and in voltage. It allows a current measurement up to 2000A in order to meet all the needs in the industrial field. It can also measure DC voltages up to 1500V and AC voltages up to 1000V to meet the needs of photovoltaic applications. It is not necessary to use a specific adapter to measure DC voltage up to 1500V since it is classified as 1000V AC/DC - CAT IV and 1500V DC CAT III.

Also featuring advanced functions such as frequency measurement, resistance measurement up to 40M $\Omega$ , capacitance measurement up to 2000 $\mu$ F or temperature measurement, it will answer to all your controls or troubleshooting needs.

#### ■ Characteristics :

- Current measurement up to 2000A TRMS AC + DC (400Hz max)
- Voltage measurement up to 1000V AC + DC (400Hz max) and 1500V DC
- Voltage measurement on Variable Frequency Drive (VFD) up to 1000V
- Frequency measurement up to 2000Hz
- Resistance measurement up to 40M $\Omega$
- Capacitance measurement up to 2000 $\mu$ F
- Temperature measurement (thermocouple type K provided)
- Continuity measurement with buzzer
- Diode testing
- Jaws opening: 55mm maximum
- Non contact voltage detection (Electric field detection)
- Double measurement display voltage with frequency or current
- Auto-ranging mode
- Backlighted LCD display
- 5ms crest-max capture mode
- Zero offset mode
- Automatic power-off mode
- Hold function
- LCD display 6000 counts
- Safety : 1000V AC/DC - CAT IV and 1500V DC CAT III



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Specifications	MW3518
<b>AC current (clamp on)</b>	
<b>Range</b>	<b>Accuracy</b>
	<b>50Hz-60 Hz</b>
200.0A	± (2.0% reading + 5dgt)
0-500A	± (2.5% reading + 5dgt)
500-2000A	± (3.0% reading + 5dgt)
	<b>40Hz-50Hz and 60Hz - 400Hz</b>
200.0A	± (2.5% reading + 5dgt)
0-500A	± (3.0% reading + 5dgt)
500-1000A	± (3.5% reading + 5dgt)
1000-2000A	unspecified
<b>DC current (clamp on)</b>	
<b>Range</b>	<b>Accuracy</b>
200.0A	± (2.0% reading + 5dgt)
0-500A	± (2.0% reading + 5dgt)
500-2000A	± (3.0% reading + 5dgt)
<b>DC + ACA current (clamp on)</b>	
<b>Range</b>	<b>Accuracy</b>
	<b>DC, 50Hz - 60Hz</b>
200.0A, 2000A	± (3.0% + 8dgt)
	<b>40Hz-50Hz and 60Hz - 400Hz</b>
200.0A	± (3.5% + 8dgt)
0-1000A	± (3.5% + 8dgt)
1000-2000A	unspecified
<b>AC voltage</b>	
<b>Bandwith</b>	50Hz to 400Hz
<b>Ranges</b>	6.000V-60.00V-600.0V 1000V
<b>Accuracy</b>	± (1.2% reading + 3dgt)
<b>Impedance</b>	10MΩ // 50pF
<b>DC voltage</b>	
<b>Ranges</b>	6.000V-60.00V-600.0V 1000V
<b>Accuracy</b>	± (0.5% reading + 5dgt)
<b>Impedance</b>	10MΩ // 50pF
<b>AC + DC voltage</b>	
<b>Bandwith</b>	50Hz to 400Hz
<b>Ranges</b>	6.000V-60.00V-600.0V 1000V
<b>Accuracy</b>	± (1.4% reading + 7dgt)
<b>Impedance</b>	10MΩ // 50pF
<b>VFD_AC voltage (with low pass filter)</b>	
<b>Range</b>	<b>Accuracy</b>
	<b>10Hz-20Hz</b>
6.000V-60.00V-600.0V 1000V	± (4% reading + 80dgt)
	<b>20Hz-200Hz</b>
6.000V-60.00V-600.0V 1000V	± (2% reading + 60dgt)
	<b>200Hz - 400Hz</b>
6.000V-60.00V-600.0V 1000V	± (7% reading + 80dgt)
<b>Resistance</b>	
<b>Range</b>	<b>Accuracy</b>
600.0Ω-6.000kΩ, 60.00kΩ	± (0.5% reading + 5dgt)
600.0kΩ	± (0.8% reading + 5dgt)
6.000MΩ	± (1.2% reading+ 5dgt)
40.00MΩ	± (2.3% reading + 5dgt)
<b>Hz Line Level Frequency</b>	
<b>Function</b>	<b>Range</b>
6V	40Hz - 1999Hz
60V	40Hz - 1999Hz
600V	40Hz - 1999Hz
1000V	40Hz - 1999Hz
200A	20Hz-400Hz
<b>Accuracy</b>	± (0.1% reading + 4dgt)
<b>Non-contact EF-Detection</b>	
<b>Typical voltage</b>	Bar-Graph indication
89V (tolerance : 12V - 165V)	-
177V (tolerance : 81V - 272V)	- - -
589V (tolerance : 178V-1000V)	- - - -
Audible beep tones proportional to the field strength	
Detection Frequency : 50/60Hz	

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Specifications		MW3518
<b>Continuity</b>		
with buzzer at between 10Ω and 200Ω		
Response time : 32ms approx		
<b>Capacitance</b>		
<b>Range</b>		<b>Accuracy</b>
60.00 nF, 600.0 nF, 6.000μF		± (2.0% reading + 5dgt)
60.00μF, 600.0μF		± (3.5% reading 5dgt)
2000μF		± (4.0% reading + 5dgt)
<b>Diode tester</b>		
<b>Range</b>		<b>Accuracy</b>
1.000V		± (1.0% reading + 3dgt)
<b>Temperature</b>		
<b>Range</b>		<b>Accuracy</b>
-50°C - 1000°C		± (0.3% reading + 4dgt)
-58°F - 1832°F		± (0.3% reading + 6dgt)

*K-type thermocouple range and accuracy not included*

### MAIN SPECIFICATIONS

Digital display	LCD screen
Display	6000 counts for main measurement display and 2000 counts for Hz
Jaws Opening	55mm max
Measurement rate	5 measurement/s
Automatic power-off	after 34 minutes
Operating Temperature	0°C to 40°C
Storage temperature	-20°C to 60°C < 80% R.H
Altitude	Operating below 2000m
Safety	CAT IV 1000V AC/DC and CAT III 1500V DC
Power supply	2 batteries 1,5V AA
Power consumption	14 mA for current functions and 5.2mA for others
Dimensions	L264mm x W97mm x H43mm
Weight	608g
Warranty	1 year

**Supplied with** : soft carrying pouch, test leads with touch point, user's guide, batteries, thermocouple K-type banana plug.

For assistance and ordering



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MW3518 A 00 - Specifications can be updated without notice



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