

Product Datasheet - Technical Specifications



More information in our Web-Shop at ► www.meilhaus.com

Your contact

Technical and commercial sales, price information,
quotations, demo/test equipment, consulting:

Tel.: +49 - (0)81 41 - 52 71-0

E-Mail: sales@meilhaus.com

Meilhaus Electronic GmbH
Am Sonnenlicht 2
82239 Alling/Germany

Tel. +49 - (0)81 41 - 52 71-0 E-
Mail sales@meilhaus.com

Mentioned company and product names may be registered trademarks of the respective companies. Errors and omissions excepted. © Meilhaus Electronic.

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 Ω , capacitance measurement up to 2000 μ 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 Ω
- Capacitance measurement up to 2000 μ 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



MW3518

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

Specifications	MW3518
AC current (clamp on)	
Range	Accuracy
	50Hz-60 Hz
200.0A	± (2.0% reading + 5dgt)
0-500A	± (2.5% reading + 5dgt)
500-2000A	± (3.0% reading + 5dgt)
	40Hz-50Hz and 60Hz - 400Hz
200.0A	± (2.5% reading + 5dgt)
0-500A	± (3.0% reading + 5dgt)
500-1000A	± (3.5% reading + 5dgt)
1000-2000A	unspecified
DC current (clamp on)	
Range	Accuracy
200.0A	± (2.0% reading + 5dgt)
0-500A	± (2.0% reading + 5dgt)
500-2000A	± (3.0% reading + 5dgt)
DC + ACA current (clamp on)	
Range	Accuracy
	DC, 50Hz - 60Hz
200.0A, 2000A	± (3.0% + 8dgt)
	40Hz-50Hz and 60Hz - 400Hz
200.0A	± (3.5% + 8dgt)
0-1000A	± (3.5% + 8dgt)
1000-2000A	unspecified
AC voltage	
Bandwith	50Hz to 400Hz
Ranges	6.000V-60.00V-600.0V 1000V
Accuracy	± (1.2% reading + 3dgt)
Impedance	10MΩ // 50pF
DC voltage	
Ranges	6.000V-60.00V-600.0V 1000V
Accuracy	± (0.5% reading + 5dgt)
Impedance	10MΩ // 50pF
AC + DC voltage	
Bandwith	50Hz to 400Hz
Ranges	6.000V-60.00V-600.0V 1000V
Accuracy	± (1.4% reading + 7dgt)
Impedance	10MΩ // 50pF
VFD_AC voltage (with low pass filter)	
Range	Accuracy
	10Hz-20Hz
6.000V-60.00V-600.0V 1000V	± (4% reading + 80dgt)
	20Hz-200Hz
6.000V-60.00V-600.0V 1000V	± (2% reading + 60dgt)
	200Hz - 400Hz
6.000V-60.00V-600.0V 1000V	± (7% reading + 80dgt)
Resistance	
Range	Accuracy
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)
Hz Line Level Frequency	
Function	Range
6V	40Hz - 1999Hz
60V	40Hz - 1999Hz
600V	40Hz - 1999Hz
1000V	40Hz - 1999Hz
200A	20Hz-400Hz
Accuracy	± (0.1% reading + 4dgt)
Non-contact EF-Detection	
Typical voltage	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	

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

Specifications		MW3518
Continuity		
with buzzer at between 10Ω and 200Ω		
Response time : 32ms approx		
Capacitance		
Range		Accuracy
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)
Diode tester		
Range		Accuracy
1.000V		± (1.0% reading + 3dgt)
Temperature		
Range		Accuracy
-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.

