



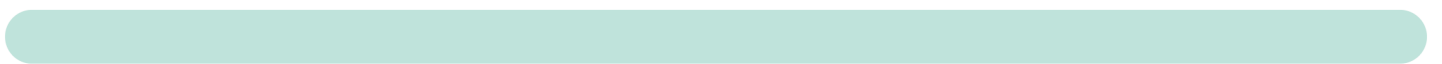
# PRODUCT CATALOG 2024-2025



MOST TRUSTED TOOLS FOR ENGINEERS

[WWW.METERIVA.COM](http://WWW.METERIVA.COM)

# ABOUT US



## CONTENTS

Digital Multimeter.....	1-2
Digital Clamp Meter.....	3-4
Sound Level Meter.....	5-7
Digital Lux Meter.....	8
Digital Anemometer.....	9
Geiger Counter.....	10
Particle Counter.....	11
Portable Roughness Tester.....	12-13
Portable Hardness Tester.....	14-15



## METERIVA

METERIVA is a distinguished brand under Dhanbad Lab Instruments India Pvt Ltd, specializing in the manufacturing of a diverse range of precision instruments for various applications. The brand is well-known for its commitment to producing high-quality and reliable measurement tools. Some of the notable products offered by METERIVA include Digital Multimeter, Digital Clamp Meter, Sound Level Meter, Digital Lux Meter, Digital Anemometer, EMF Tester, Geiger Counter, Particle Counter, Portable Hardness Tester, Portable Roughness Tester, SLM Calibrator, Industrial Borescope, and Coating Thickness Gauge.


With a focus on technological innovation and accuracy, METERIVA's instruments cater to professionals in fields such as electronics, environmental monitoring, industrial inspection, and materials testing. The brand's Digital Multimeter and Clamp Meter are essential tools for electrical measurements, while the Sound Level Meter ensures precise audio level monitoring. The Digital Lux Meter and Anemometer are designed for applications related to light intensity and airflow, respectively.

METERIVA also provides specialized instruments like the EMF Tester, Geiger Counter, and Particle Counter for applications involving electromagnetic fields, radiation detection, and particle measurement. The Portable Hardness Tester and Roughness Tester cater to professionals working in material testing and quality control. Additionally, the SLM Calibrator ensures the accuracy of sound level meters, and the Industrial Borescope allows for efficient visual inspection in industrial environments. The Coating Thickness Gauge is a valuable tool for measuring the thickness of coatings on various surfaces.

# DIGITAL MULTIMETER

## MR-DM43 / MR-DM43 WITH NABL



- Provides both Auto range and manual range options.
- Overload protection is available in all ranges.
- Maximum allowable voltage: 1000V DC or 750AC (RMS).
- Operating altitude: up to 2000m.
- Display: LCD, Safety Rating: CAT III
- Maximum display value: 5999 counts.
- Auto polarity indication with '-' indicating negative polarity.
- Overrange display: 'OL' or '-OL'.
- Sampling time: approximately 0.4 seconds.
- Unit display: function, range unit display.
- Auto shutdown time of 30 minutes without any operations.
- Power supply: 9V 6F22 battery.
- Low battery indication: LCD display  symbol.
- Temperature accuracy: less than 0.1 x accuracy / C.
- Operating temperature: 0 C ~ 40 C.
- Storage temperature: -10 ~ 50 C.
- Size: 175 x 85 x 52mm.
- Weighs approximately 368g (excluding the battery).



FUNC	RANGE	ACCURACY	RESOLUTION	
DCV	600mV	$\pm(0.8\% \text{ rdg} + 3 \text{ dgt})$	0.1mV	
	6V		0.001V	
	60V		$\pm(0.5\% \text{ rdg} + 5 \text{ dgt})$	0.01V
	600V			0.1V
	1000V			1V
ACV (45~1KHz)	6V	$\pm(1.2\% \text{ rdg} + 5 \text{ dgt})$	0.001V	
	60V		0.01V	
	600V	$\pm(1.5\% \text{ rdg} + 5 \text{ dgt})$	0.1V	
	750V		0.1V	
DCA	600 $\mu$ A	$\pm(1\% \text{ rdg} + 5 \text{ dgt})$	0.1 $\mu$ A	
	6000 $\mu$ A		1 $\mu$ A	
	60mA		10 $\mu$ A	
	600mA		100 $\mu$ A	
	10A	$\pm(2\% \text{ rdg} + 5 \text{ dgt})$	10mA	
ACA (50Hz-1000Hz)	600 $\mu$ A	$\pm(1.5\% \text{ rdg} + 5 \text{ dgt})$	0.1 $\mu$ A	
	6000 $\mu$ A		1 $\mu$ A	
	60mA		10 $\mu$ A	
	600mA		100 $\mu$ A	
	10A	$\pm(3\% \text{ rdg} + 5 \text{ dgt})$	10mA	
OHM	600 $\Omega$ /6K $\Omega$ /60K $\Omega$ /600K $\Omega$ /6M $\Omega$	$\pm(0.8\% \text{ rdg} + 5 \text{ dgt})$		
	60M $\Omega$	$\pm(1.5\% \text{ rdg} + 5 \text{ dgt})$		
CAP	6nF	$\pm(4\% \text{ rdg} + 5 \text{ dgt})$		
	60nF/600nF/6 $\mu$ F/60 $\mu$ F/600 $\mu$ F	$\pm(3\% \text{ rdg} + 3 \text{ dgt})$		
	6mF/60mF	$\pm(4\% \text{ rdg} + 5 \text{ dgt})$		
Hz V/C	60Hz/600Hz/6kHz/10kHz	$\pm(1.5\% \text{ rdg} + 5 \text{ dgt})$		
Hz	60Hz/600Hz/6kHz/60kHz/600kHz/6MHz/60MHz	$\pm(1.5\% \text{ rdg} + 5 \text{ dgt})$		
Duty Cycle	Range 10%~95%	$\pm 2.0\%$	0.1%	
	Will display forward drop voltage		0.001V	
Continuity	If the measured line resistance is less than 300 $\Omega$ , the buzzer inside the instruments will sound.		0.1	

SPECIFICATION

Order ID  
 • MR-DM43  
 • MR-DM43 with NABL





# DIGITAL MULTIMETER

## MR-DM52 / MR-DM52 WITH NABL

- Safety rating: IEC61010-1, CAT II 1000V or CAT III 600V
- 5999 counts LCD display, max. reading 5999
- Overload protection: PTC on OHM range
- Fuses: 600mV/250V, 20A/250V ceramic
- Overload indication: "OL" or "-OL"
- Polarity display: auto, "-" for negative
- Working °C/humidity: 0~40°C, 45%~80%RH
- Storage °C/humidity: -20~60°C, 45%~80%RH
- Low battery indication:
- Batteries: 9Vx1 NEDA 1604 or 6F22
- Dimensions: 195x92x55mm
- Weight: approx. 380g (incl. battery)

CE NABL 



### SPECIFICATION

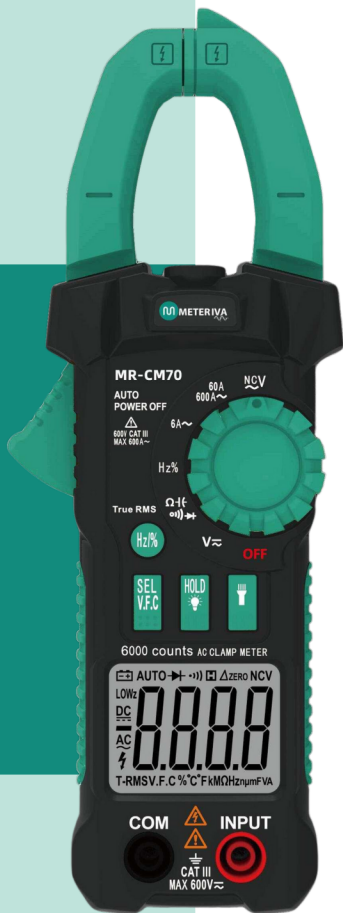
FUNC	RANGE	ACCURACY	RESOLUTION
DCV	600mV	±(0.5% rdg + 2 dgt)	0.1mV
	6V		0.001V
	60V		0.01V
	600V		0.1V
	2000V		1V
ACV TRMS (50Hz-1000Hz)	6V	±(1% rdg + 3 dgt)	0.001V
	60V		0.01V
	600V		0.1V
	2000V		1V
DCA	600µA	±(0.8% rdg + 10 dgt)	0.1µA
	6mA		1µA
	60mA		10µA
	600mA		100µA
ACA (50Hz-1000Hz)	20A	±(2% rdg + 5 dgt)	10mA
	6mA		1µA
	60mA		10µA
	600mA		100µA
OHM	600Ω/6KΩ/60KΩ/600KΩ/6MΩ	±(0.8% rdg + 3 dgt)	
	60MΩ		±(2% rdg + 5 dgt)
	9.999nF (Press REL for zero adjustment)		±(4% rdg + 20 dgt)
	99.99nF/999.9nF/9.999µF/99.99µF/999.9µF		±(3% rdg + 5 dgt)
CAP	9.999mF/99.99mF	±(5% rdg + 10 dgt)	
Hz	9.999Hz/99.99Hz/999.9Hz/9.999kHz/99.99kHz/999.9kHz/9.999MHz	±(2% rdg + 5 dgt)	
Duty Cycle	Range 1%~99%	For reference only	1%
(hFE)	The display reads the approximate value of hFE, (0-1000)	Base Current is about 10µA Vce is about 2.8V	0-1000
Temperature	-20°C ~ 1000°C	±(1.0% rdg + 4 dgt), < 400°C	
		±(1.5% rdg + 5 dgt), ≥ 400°C	
		±(1.0% rdg + 6 dgt), < 752°F	
	-4°F ~ 1832°F	±(1.5% rdg + 10 dgt), ≥ 752°F	
	Display diode forward voltage approximation		0.001V
Continuity	If the measured line resistance is less than 100Ω, the buzzer inside the instruments will sound.		

Order ID  
 • MR-DM52  
 • MR-DM52 with NABL



# DIGITAL CLAMP METER

## MR-CM70 / MR-DM70 WITH NABL



- Use environmental conditions: 600V CAT III, pollution level: II.
- Altitude <2000 m.
- Operating environment temperature and humidity: 0~40°C (<80% RH, <10°C do not consider).
- Storage environment temperature and humidity: -10~60°C (<70% RH, remove the battery).
- Temperature coefficient: 0.1 Accuracy / °C (<18°C or >28°C).
- Maximum allowable voltage between the measuring end and the ground: 600V DC or 600V AC RMS.
- Sampling rate: about 3 times/sec.
- Display: 5999 digit LCD display.
- Over range indication: "OL" or "-OL" will be displayed on the LCD.
- Battery low voltage indication: "⚡" will be displayed on the LCD when the battery voltage is below the normal operating voltage.
- Input polarity indication: "-" is automatically displayed.
- Power supply: 2 x AAA DC 1.5V.
- Dimensions: 191mm × 70mm × 37mm.
- Weight: about 195g (without battery).
- Jaw opening maximum size: 25mm.



FUNC	RANGE	ACCURACY	Resolution
DCV	600mV	±(0.8% rdg + 3 dgt)	0.1mV
	6V		0.001V
	60V		0.01V
	600V	±(1% rdg + 5 dgt)	0.1V
ACV	6V	±(1.2% rdg + 5 dgt)	0.001V
	60V		0.01V
	600V	±(1.5% rdg + 10 dgt)	0.1V
	200-600V (V.F.C)	±(4% rdg + 10 dgt)	0.1V/1V
ACA	6A	±(4% rdg + 10 dgt)	0.001A
	60A		0.01A
	600A		0.1A
OHM	600Ω/6KΩ/60KΩ/600KΩ/6MΩ	±(1.2% rdg + 2 dgt)	
	60MΩ	±(2% rdg + 5 dgt)	
CAP	99nF/999nF/9.9μF/99μF/999μF/9.9mF/99mF	±(4% rdg + 3 dgt)	
	6mF/60mF	±(4% rdg + 5 dgt)	
Hz (through A mode)	600Hz/1kHz/>1kHz	±(1.5% rdg + 5 dgt) / for reference only	
Hz (through V mode)	600Hz/6kHz/10kHz/>10kHz	±(1.5% rdg + 5 dgt) / for reference only	
Duty Cycle	Range 10%~95%	±0.1%	±3%
▶	Displays the approximate diode forward voltage	0.001V	
●	If the measured line resistance is less than 30Ω, the buzzer inside the instruments will sound.	0.1Ω	

SPECIFICATION

- Order ID
- MR-CM70
  - MR-CM70 with NABL



# DIGITAL CLAMP METER

## MR-CM34 / MR-CM34 WITH NABL

- Environmental conditions: 600V CAT III, pollution level: II
- Altitude < 2000 m.
- Working environment temperature and humidity: 0~40°C (<80% RH, not considered when <10°C).
- Storage environment temperature and humidity: -10~60°C (<70% RH, remove the battery).
- Temperature coefficient: 0.1 accuracy / °C (<18° Cor > 28°C).
- Maximum voltage allowed between the measuring terminal and the earth: 600V DC or 600V AC RMS.
- Sampling rate: about 3 times/sec.
- Display: 5999 digit LCD.
- Over range indication: The LCD will display "OL" or "-OL".
- Battery low voltage indication: When the battery voltage is lower than the normal working voltage, "⚡" will be displayed on the LCD.
- Input polarity indication: " - " is automatically displayed.
- Power: AAA DC 1.5Vx2 section.
- Dimensions: 191mm × 70mm × 37mm.
- Weight: about 190g (without battery).
- Jaw opening maximum size: 25mm



### SPECIFICATION

FUNC	RANGE	ACCURACY	Resolution
DCV	600mV	±(0.8% rdg + 3 dgt)	0.1mV
	6V		0.001V
	60V		0.01V
ACV	600V	±(1% rdg + 3 dgt)	0.1V
	6V		0.001V
	60V	±(1.2% rdg + 5 dgt)	0.01V
	600V		0.1V
Low Voltage	200-600V (V.F.C)	±(1.5% rdg + 10 dgt)	1V
ACA	60A	±(3% rdg + 10 dgt)	10mA
	600A		100mA
DCA	60A	±(3% rdg + 10 dgt)	10mA
	600A		100mA
OHM	600Ω/6KΩ/60KΩ/600KΩ/6MΩ	±(1.2% rdg + 2 dgt)	
	60MΩ		±(2% rdg + 5 dgt)
CAP	60nF/600nF/6μF/60μF/600μF/6mF/60mF	±(4% rdg + 3 dgt)	
Hz (through A mode)	600Hz/1kHz/>1kHz	±(1.5% rdg + 5 dgt) / for reference only	
Hz (through V mode)	600Hz/6kHz	±(1.5% rdg + 5 dgt)	
Temperature	-30°C ~ 0°C (-22°F ~ 32°F)	1°C/2°F	±(5% rdg + 3 dgt)
	0°C ~ 400°C (32°F ~ 752°F)		±(1% rdg + 3 dgt)
	400°C ~ 1000°C (752°F ~ 1832°F)		±(2% rdg + 2 dgt)
→ —	Displays the approximate diode forward voltage	0.001V	
•	If the measured line resistance is less than 30Ω, the buzzer inside the instruments will sound.		0.1Ω

Order ID  
 • MR-CM34  
 • MR-CM34 with NABL



# SOUND LEVEL METER

## MR-SLM16 / MR-SLM16 WITH NABL



The METERIVA Sound Level Meter MR-SLM16 is equipped with Frequency Weighting: A, offering a frequency response range from 31.5Hz to 8KHz. It covers levels ranging from 30dB to 130dB with a resolution of 0.1 dB. The response time can be set to FAST (125ms) or SLOW (1000ms). Overload indication is displayed for levels below 30dB (UN display) and above 130dB (OL display). The accuracy is within  $\pm 1.5$ dB at 1KHz with a one-year calibration period.

The meter has an auto power-off feature, shutting down after approximately 10 minutes of inactivity to conserve battery. It operates on a 9V 6F22 battery and has a low battery indicator for voltages below 6V. The sensor is a 1/2 inch electret condenser microphone.

CE NABL  FC RoHS

PARAMETERS	SPECIFICATIONS
Frequency weighting	A
Pollution Level	Class II
Frequency Response	31.5Hz — 8KHz
Measuring Range	30dB ~ 130dB
Frequency Range	31.5~8000Hz
Accuracy	$\pm 1.5$ dB
Resolution	0.1dB
Data Update	500ms
Response Time	FAST 125 ms, SLOW 1s
Resolution	0.1dB
Response Time	(FAST)125ms (SLOW) 1000ms
Overload Indication	< 30dB (UN display) > 130dB (OL display)
Accuracy	$\pm 1.5$ dB (@1KHz Standard source) One- Year calibration period
Auto Power Off	Auto shut down after approx 10 minutes of inactivity
Low Battery	< 6V
Sensor	1/2 inch electret condenser microphone
Power Supply	9V 6F22
Operating Condition	0 ~ 40°C (32 ~ 104°F), 45 ~ 80% RH
Dimensions	192mmx53.8mmx35mm
Weight	Around 169g( Battery included)

SPECIFICATION

### DELIVERY SCOPE

- 1 x MR-SLM16
- 1 x 9V battery
- 1 x Windscreen
- 1 x Manual

- Order ID
- MR-SLM16
  - MR-SLM16 with NABL



# DATA LOGGER SOUND LEVEL METER

## MR-SLM7D / MR-SLM7D WITH NABL

The MR-SLM7D Professional Sound Level Meter measures and displays sound levels in dB from 30 to 130 dB with high accuracy. User-selectable features include Frequency weighting (A & C), Response Time (Fast & Slow), Data Hold, and MAX/MIN recording. The outstanding function of AC/DC analog signal output and data logger makes this instrument more powerful. It's CE-approved and complies with the norm of IEC 651 type 2, ANSI S1.4 TYPE 2.

### KEY FEATURES:

- Digital Data with Analog Bar-graph dual display
- Measurement range: 30~130dB
- High accuracy  $\pm 1.5\text{dB}$ , Resolution 0.1dB
- A/C Frequency weighting
- DC/AC Analog signal output
- Fast/Slow Response time
- Over-range and Under-range indication
- MAX/MIN
- Backlight
- External 9V DC power supply (for long time measurement)
- Data logging and USB interface
- Data hold to freeze the reading
- Auto power off in 20 minutes if without operation



CE NABL

### DELIVERY SCOPE

- 1 x MR-SLM7D
- 1 x 9V battery
- 1 x Windscreen
- 1 x USB cable
- 1 x Software CD
- 1 x Manual
- 1 x Hardcase Box

- Order ID
- MR-SLM7D
  - MR-SLM7D with NABL

SPECIFICATION	PARAMETERS	SPECIFICATIONS
	Standards	IEC61672-1: 2013 Class 2
	Measurement Range	30~130dB
	Microphone	1/2 inch polarized condenser microphone
	Frequency Range	31.5~8000Hz
	Accuracy	$\pm 1.5\text{dB}$
	Resolution	0.1dB
	Data Update	500ms
	Response Time	FAST 125 ms, SLOW 1s
	Standard Calibrator	1KHz sine wave @ 94 or 114dB
	Data logger Memory	32000 data
	Display	3-1/2 digital LCD with analog bar-graph
	Frequency Weighting	A and C
	Display	3-1/2 digital LCD with analog bar-graph
	Over Load Indication	Display "OVER" & "UNDER" icons
	Output	AC/DC signal output from earphone jack AC=4Vrms, DC=10mV/dB
	Auto Power Off	Automatically power off if no operation in 10 mins
	Output Port	Micro USB
	Power	One 6F22 battery or 9V 6LR61
	Operating Condition	0 ~ 50°C (32 ~ 122°F), 10 ~ 90% RH, Non-condensing
Storage Condition	-20 ~ 60°C (-4 ~ 140°F), 10 ~ 90% RH, Non-condensing	
Weight & Dimension	200g (including battery, 215mm x 58mm x 33mm)	





# SOUND LEVEL METER

## MR-SLM34 / MR-SLM34 WITH NABL



- The sound level meter conforms to the international committee IEC651 Type2 and the American national standard ANSI S1.4 Type2.
- The shell adopts a composite material injection molding process, anti-fall structure design, strong wear-resistance, beautiful and professional.
- Power saving and high-reliability circuit design, high-efficiency power supply, and circuit make the battery more durable.
- Digital display, better anti-interference performance, power saving.
- Flashlight.
- Automatic shift.
- A & C weighted network selection.
- FAST /SLOW reaction rate selection.
- Maximum value (MAX) lock.
- Automatic shutdown: 10 minutes.
- Measurement range: 30~130 dB.

PARAMETERS	SPECIFICATIONS
Measuring Range	30~130dB (A-weighted)
	35~130dB (C-weighted)
Sound Pressure Accuracy	±1.5dB (Sound pressure standard: 94dB@1KHz)
Sound Pressure Accuracy	±5dB (Sound pressure standard: 94dB@8KHz)
Sound Pressure Response Frequency	30Hz-8KHz
Frequency Weighting	A and C
Response Time	FAST 125 ms, SLOW 1s
Microphone	Polarized capacitive microphone
Resolution	0.1dB
Automatic Shift	The microcomputer automatically selects the best measuring gear in the range of 30~130 dB
Below or beyond the limit prompt	Indicated by "UN" and "OL"
Power supply	2 x 1.5V AAA battery
Working Temperature	0 °C ~ 40 °C
Working Humidity	10 ~ 80%RH
Storage Temperature	-10 °C ~ 50 °C
Storage Humidity	10~70%RH
Overall Dimension	185 × 60 × 30 mm
Weight	About 162 grams (excluding batteries)

SPECIFICATION

CE NABL FC RoHS

### DELIVERY SCOPE

- 1 x MR-SLM34
- 2 x 1.5V AAA battery
- 1 x Windscreen
- 1 x Sponge Balls
- 1 x Manual

- Order ID
- MR-SLM34
  - MR-SLM34 with NABL



# DIGITAL LUX METER

## MR-DL25 / MR-DL25 WITH NABL

The METERIVA Digital Lux Meter MR-DL25 is a versatile instrument designed for measuring light intensity in various environments. It features a Max and Min measurement function, allowing users to capture the highest and lowest light levels during a session. The Data Hold function enables users to freeze the displayed value for convenient readings.

With a measurement speed of  $\geq 2$  times per second, this lux meter provides real-time data. The unit conversion function allows users to switch between Foot Candles (Fc) and Lux for flexibility in light measurement.

The spectrum measured range spans from 320 to 730nm, covering a wide spectrum of visible light. Operating specifically in indoor environments, the meter has a measured range of 200, 2000, 20000, and 200000 Lux, as well as 20, 200, 2000, and 20000 FC.

Equipped with a Silicon photodiode sensor, the meter ensures accurate readings. Undervoltage indication alerts users when the battery voltage drops below 6.2V. The Auto Power Off feature conserves battery life by shutting off the instrument after 10 minutes of inactivity.



SPECIFICATION	PARAMETERS	SPECIFICATIONS
	Sampling Rate	$\geq 2$ times /sec
	Measuring Unit	Fc/Lux switchable
	Frequency Response	320~730nm
	Measuring Range	200/2000/20000 /200000 Lux, 20/200/2000 /20000 Fc
	Accuracy	$\pm 4\%$ (@2854K incandescent bulb) $\pm 6\%$ (@other light source)
	Auto power-off	In 10 minutes
	Low Battery Indication	Yes
	Battery Voltage	<6.2V
	Sensor	Silicon Photodiode
	Working Altitude	2000m
	Working Temperature & Humidity	0~40°C, 45%~80%RH
Storage Temperature & Humidity	-20~60°C, 45%~80%RH	
Pollution Degree	2	
Battery	9Vx1, NEDA 1604 or 6F22	
Dimensions	192x53.8x35mm	
Weight	118g (Without Battery)	

### DELIVERY SCOPE

- 1 x MR-DL25
- 1 x 9V battery
- 1 x Manual

- Order ID
- MR-DL25
  - MR-DL25 with NABL



# DIGITAL ANEMOMETER

## MR-DA7 / MR-DA7 WITH NABL



The Digital Anemometer MR-DA7 is a compact and streamlined instrument designed for measuring wind speed and wind temperature. It features a large LCD display with dual readings and a backlit function for easy visibility in various conditions. The built-in torch lamp on the back enhances visibility in low-light environments.

Key features of the MR-DA7 include wind speed and wind temperature measurement, data hold function for freezing displayed values, and the ability to measure maximum and average values. The auto-ranging feature ensures accurate readings across different wind speeds.

- Auto power-off: in 10 minutes
- Low battery indication: battery voltage <6.2V
- Working altitude: 2000m
- Working temp./humidity: 0~40°C, 45%~80%RH
- Storage temp./humidity: 2~60°C, 45%~80%RH
- Pollution degree: 2
- Battery: 9Vx1, NEDA 1604 or 6F22
- Dimensions: 190x53.8x35mm
- Weight: approx 118g (not incl. battery)



UNIT	RANGE	ACCURACY	SPECIFICATION
m/s	0.8~30.0 m/s	±(0.5% rdg + 5 dgt)	
	30.0~40.0 m/s	for reference	
km/h	1.4~108.0 km/h	±(0.5% rdg + 5 dgt)	
	108.0~144.0 V km/h	for reference	
ft/m	78~5900 ft/m	±(0.5% rdg + 5 dgt)	
	5900~7874 ft/m	for reference	
knots	0.8~58.3 knots	±(0.5% rdg + 5 dgt)	
	58.3~77.7 knots	for reference	
mph	0.9~67.2 mp/h	±(0.5% rdg + 5 dgt)	
	67.2~90.0 mp/h	for reference	
Temp	-10°C ~ 60°C	±(2.0% rdg + 2 dgt)	
	14°F ~ 140°F	±(4.0% rdg + 4 dgt)	
CFM	0~9999 CFM	0~9.999 ft <sup>2</sup>	
	0~9999 CMM	0~9.999 m <sup>2</sup>	
Class of Pollution	Second Degree		
Working Temperature & Humidity	0~40°C, 45%~80%RH		
Storage Temperature & Humidity	-20~60°C, 45%~80%RH		

### DELIVERY SCOPE

- 1 x MR-DA7
- 3 x 1.5V AAA battery
- 1 x Manual

- Order ID
- MR-DA7
  - MR-DA7 with NABL



# GEIGER COUNTER

## MR-GC07 / MR-GC07 WITH NABL

The METERIVA Geiger Counter MR-GC07 is a versatile radiation detection device equipped with various features. Its audible alarm function provides an alert for radiation levels, enhancing user awareness. The timing shutdown settings allow customization for automatic power-off, optimizing energy efficiency. The USB Type-C interface facilitates convenient data transfer and charging.

This Geiger Counter supports data export, enabling users to analyze and store radiation measurements efficiently. It excels in nuclear radiation testing, covering a wide spectrum, including alpha, beta, and gamma rays. Additionally, the device is equipped for electromagnetic radiation detection, making it a comprehensive tool for monitoring environmental radiation levels and electromagnetic fields.



SPECIFICATION	NUCLEAR Radiation Detection	
	Response time	3S
	Dose rate respons	< ± 20% (1µSv/h-99.99mSv/h)
	Energy Response	< ± 30% (48KeV~1.3MeV)
	Relative Inherent Error	< ± 15% (137Cs)
	ELECTROMAGNETIC Radiation Detection	
	Unit	(Electric field: Vm/ Magnetic field): µT
	Precision	(Electric field: 1V/m Magnetic field): 0.01µT
	Alarm threshold value	(Electric field: 50V/m Magnetic field): 0.3µT
	Range	(Electric field: 1V/M~1999V/M Magnetic field): 0.01µT-999.99µT
OTHER PARAMETERS		
Working Temperature	0~50°C	
Working Humidity	10%~80%RH	
Power	Rechargeable 3.7V Li Battery	
Display	2.8 inch LCD 320x240 Color Screen Display	
Internal Storage	(Records storage): 400w data store	
Connectivity Interface	USB, Type-C Data Cable	
Radiation Detected	x, γ, β	

### DELIVERY SCOPE

- 1 x MR-GC07
- 1 X Charger
- 1 x USB Cable
- 1 x Type C cable
- 1 x 3.7V Rechargeable Li battery
- 1 x Carrying Case
- 1 x Manual



- Order ID
- MR-GC07
  - MR-GC07 with NABL





# AIR PARTICLE COUNTER

## MR-9500 / MR-9500 WITH NABL



The METERIVA Particle Counter MR-9500 is a sophisticated device designed for accurate particle detection. With six-channel detection capabilities, it provides comprehensive monitoring across various particle sizes. The time-setting feature allows users to customize measurement durations for specific needs.

The sleep timer enhances energy efficiency by allowing the device to automatically enter a low-power mode after a specified period of inactivity. Users can set alarm values for prompt notifications when particle concentrations exceed predefined thresholds. Additionally, the MR-9500 includes temperature and humidity detection, providing a holistic environmental analysis. This particle counter is a versatile tool for ensuring air quality in diverse settings.



Particulate Detection Range	0.3µm~10µm	SPECIFICATION
Error	5% (2,000,000 Particles/ft <sup>3</sup> )	
Sample Traffic	2.83L/min (0.1 ft <sup>3</sup> )	
Range Particle size	0.3µm/0.5µm/1.0µm/3.0µm/5.0µm/10µm	
Counting Efficiency	0.3 µm 50%, >0.5 µm 100% (Complies with ISO 21501-4 and JIS)	
Particle Size Resolution	0.5µm <15% (Complies with ISO 21501-4 and JIS)	
Data Storage	Yes	
Data Sets	400W	
Internal Memory	128M	
Connecting Interface	USB	
Display	2.8 inch 320x240 LCD Display	
Battery	(Built-in lithium-ion battery) 3.7V, 2000mAh	
Operating Temperature	0°C~50°C	
Operating Humidity	10%RH~90%RH (No condensation)	
Storage Temperature	-20°C~60°C	
Storage Humidity	0%RH~95%RH (No condensation)	

### DELIVERY SCOPE

- 1 x MR-9500
- 1 x 3.V Li-ion Rechargeable Battery
- 1 x USB Data Cable
- 1 x Manual



- Order ID
- MR-9500
  - MR-9500 with NABL



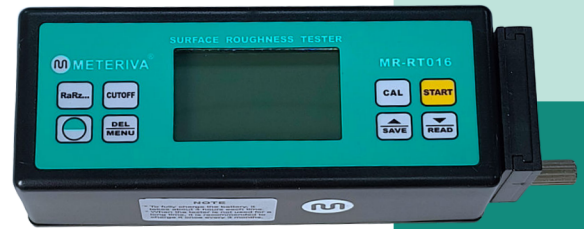


# ROUGHNESS TESTER

## MR-RT016/ MR-RT016 WITH NABL

Be compatible with the four standards of ISO, DIN, ANSI, and JIS. When measuring the roughness of a surface, the sensor is placed on the surface and then uniformly slides along the surface by driving the mechanism inside the tester.

- Multiple parameter measurement: Ra, Rz, Rq, Rt.
- Highly sophisticated inductance sensor.
- Four-wave filtering methods: RC, PC-RC, GAUSS, and DP.
- Built-in lithium-ion rechargeable battery and control circuit with high capacity.
- Small in size, light in weight, and easy to use.
- Manual or automatic shutdown.
- Can memorize 7 groups of measurement results and measuring conditions for later use or download to PC.
- Metric /Imperial Conversion.
- Use USB data output with a connection PC.
- Provide Bluetooth data output choice.



SPECIFICATION	Measuring Range		Ra, Rq: 0.005~16.00 um / 0.020~629.9 uinch Rz, Rt: 0.020~160.0 um / 0.078~6299 uinch
	Accuracy		Not more than ±10%
	Fluctuation of display value		Not more than 6%
	Resolution		0.001µm, 0.01µm, 0.1µm
	Probe	Radius	5µm
		Material	Diamond
		Measurement Force	4mN(0.4gf)
		Angle	90°
		Vertical Radius	48mm
		Maximum Driving Stroke	17.5mm/0.7inch
		Cutoff Length	0.25mm, 0.8mm, 2.5mm
	Driving Speed	Measuring	Sampling Length: 0.25mm Vt: 0.135mm/s
			Sampling Length: 0.8mm Vt: 0.5mm/s
			Sampling Length: 2.5mm Vt: 1mm/s
	Returning	Vt=1mm/s	
	Profile digital filter	Filtered Profile	RC, PC-RC, GAUSS
Non-Filtered Profile		DP	
Evaluation length		1~5L optional	
Data Memorize		7 Groups	
Power Supply		Built-in rechargeable Li-ion battery	

### DELIVERY SCOPE

- 1 x MR-RT016
- 1 x Small Screwdriver
- 1 x Standard Boilerplate
- 1 x Standard Sensors
- 1 x Carrying Case
- 1 x Operation Manual

- Order ID
- MR-RT016
  - MR-RT016 with NABL



# ROUGHNESS TESTER

## MR-RT007 / MR-RT007 WITH NABL



- High-accuracy inductance sensor.
- Multiple parameter measurement: Ra, Rz.
- With low power consumption indication.
- Can be measured in several parts of the surface roughness: Planar, curved surface, small hole, and slot of the irregular surface.
- Design of electromechanical integration, small volume, lightweight, convenient with measuring value storage function and data storage query.
- Use DSP chip control and data processing, high speed, low power consumption LCD digital display with backlight function.
- Use USB data output with a connection PC.
- Provide Bluetooth data output choice.

Measuring Range		Ra: 0.05-10.00um/1.000-400.0uinch
		Rz: 0.020-100.0um/0.780-4000uinch
Accuracy		±15%
Fluctuation of display value		10%
Resolution		0.001μm, 0.01μm, 0.1μm
Probe	Radius	10μm
	Material	Diamond
	Measurement Force	16mN(1.6gf)
	Angle	90°
	Vertical Radius	48mm
	Maximum Driving Stroke	12.5mm/0.5inch
	Cutoff Length	0.25mm, 0.8mm, 2.5mm
Driving Speed	Measuring	Sampling Length: 0.25mm Vt: 0.135mm/s
		Sampling Length: 0.8mm Vt: 0.5mm/s
		Sampling Length: 2.5mm Vt: 1mm/s
	Returning	Vt=1mm/s
Evaluation length		1~2L cut off optional (0.25mm sampling length =1L)
Power Supply		4 x 1.5vAA Um-3 Battery
Size		140 x 75 x 33 mm
Weight		280 g (Not including batteries)

SPECIFICATION

### DELIVERY SCOPE

- 1 x MR-RT007
- 1 x Small Screwdriver
- 1 x Standard Boilerplate
- 1 x Standard Sensors
- 1 x Carrying Case
- 1 x Operation Manual

- Order ID
- MR-RT007
  - MR-RT007 with NABL



# HARDNESS TESTER

## MR-HD700/ MR-HD700 WITH NABL

The MR-HD700, a versatile hardness tester, is specifically engineered to monitor the hardness of metal products.

Combining ultrasonic and dynamic methods of hardness measurement, the MR-HD700 stands out as the most adaptable and efficient solution for conducting incoming, in-process, and outgoing quality control of materials.

Utilized for diverse applications, including the measurement of carbon and structural steels, surface-hardened products, heat-resistant, corrosion-resistant, stainless steels, galvanized coatings, welds, aluminum and copper alloys, products of complex configuration, thin-walled, and compact products.

Addressing challenges arising from discrepancies between departments or subcontractors in hardness measurement results during component acceptance, the MR-HD700 offers an accessible and reliable solution. It enables measurements with an accuracy closely approaching that of stationary hardness testers.

The hardness tester, featuring a protective casing with rubber inserts and a dust-resistant cover, as well as a vibrant colored 3.5" LCD TFT display and a user-friendly menu interface, can be employed not only in laboratories but also in manufacturing workshops and open-air field conditions.

### DYNAMIC SENSOR:

Designed for measuring the hardness of large and massive objects, the sensor ensures optimal measurement conditions. Additional dynamic sensors with varying sizes and spring stiffness, providing different impact energy of the indenter, can be employed for diverse objects.

### ULTRASONIC SENSOR:

Effective in tackling tasks involving hardness measurement in grooves, surfaces with a small radius, hard-to-reach areas, complex-shaped products, and small details. Well-suited for measuring the hardness of mirror surfaces on shaft necks, blades, and gear teeth, especially when using the UCI-S type sensor.

### FEATURES OF THE HARDNESS TESTER MR-HD700:

- Dust and moisture-resistant casing.
- Intuitive interface organized on the principle of 'TURN ON AND WORK.'
- Color display with backlighting for clear presentation of measurement results in bright sunlight and low light conditions.
- Notification of measurement result output within established limits.
- Unique system for statistical data processing for prompt analysis of measurement results.
- Single-point calibration function.
- Large memory capacity – enables input and storage of over 100 user scales and viewing the history of all conducted measurements after completing the operation.
- Self-programming of additional scales.
- Saving all measurement results by date and time. Viewing results in the form of tables and graphs for detailed analysis of obtained values.
- Stable operation of the device in challenging climatic conditions.



In addition to standard sensors, it is possible to supply additional dynamic («E», «G» type) and ultrasonic (UCI-S, UCI-R, UCI-L, UCI-P) sensors for various tasks.



# HARDNESS TESTER

## MR-HD700/ MR-HD700 WITH NABL

S P E C I F I C A T I O N

Measurement range for the main scales		
Rockwell	20 - 70 HRC*	
Brinell	30 - 650 HB*	
Vickers	230 - 940 HV*	
Measurement error	Subject to following recommendations *	Requirements of ISO and ASTM standards
Rockwell	±0.2 HRC	±2 HRC
Brinell, in the range 90-180 HB 180-250 HB 250-460 HB	± 3 HB	±10 HB ±15 HB ±20 HB
Vickers in the range 240-500 HV 500-800 HV 800-940 HV	± 3 HV	+/- 15 HV +/- 20 HV +/- 25 HV
Diameter of the surface for installing the sensor		
For the ultrasonic sensor	- from 1 mm on the plane, from 5 mm/0.197" in a blind hole (groove)	
For the dynamic sensor:	from 14 mm/0.551" on the plane	
The recommended roughness of the controlled product		
For a dynamic sensor type "D" type "G"	3.2 Ra 7.2 Ra	
For an ultrasonic sensor	1.6 Ra	
Algorithm of false values	Yes	
Materials	Ultrasonic sensor (UCI) - pre-calibrated for steel	
	Dynamic sensor - pre-calibrated for steel, cast iron, stainless steel, aluminum, bronze, brass, and copper	
	Additional user materials for calibration	
Calculations	Average value for 1-20 measurements; Minimum, maximum, average values; Algorithm for rejecting incorrect measurements	
Scale conversion	Conversion of measured hardness into different scales	
Programmable scales	Additional scales beyond 100	
Construction of graphs	All points from the series that were considered in the calculation of the mean value	
Language	Ukrainian, English, Russian	
Memory capacity	128Mb (Possibility of saving more than 1000 measurements)	
Device body	Impact-resistant plastic casing with a rubber bumper (fall protection)	
Display	LCD TFT 3.5" 320x480 px	
PC connection	USB, results processing, report generation	
Power supply	Rechargeable, Li-Pol, 3.7V 3000mAh	
Work without recharging	9 hours	
Operating temperature	-10...+45 °C, no condensation	
Overall dimensions	185 x 98 x 42 mm (including rubber inserts)	
Weight	0.35 kg	









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