

Mastech MS2108

Mastech MS2108 Digital Clamp Meter Multimeter Instruction Manual

Model: MS2108 | Brand: Mastech

1. INTRODUCTION

This manual provides detailed instructions for the safe and proper use of the Mastech MS2108 Digital Clamp Meter. This portable, professional measuring instrument features an LCD with backlight for easy reading and a 'single-hand operation' design for the range switch. It offers overload protection and low battery indication, making it an ideal multi-function instrument for industrial, mining, and vehicle maintenance electrical engineers.

2. SAFETY INFORMATION

Always observe local and national safety codes. Use personal protective equipment (PPE) as required. Failure to follow safety precautions can result in injury or damage to the meter.

- Conforms to IEC61010-1 & IEC61010-032 standard.
- Double insulation (protection class 600V CAT III and pollution degree 2).
- Do not use the meter if it or the test leads appear damaged.
- Ensure the function switch is in the correct position before making measurements.
- Do not exceed the maximum input limits for any range.
- Exercise extreme caution when working with live electrical circuits.

3. KEY FEATURES

- True RMS measurement for accurate readings on non-sinusoidal waveforms.
- Inrush current function for measuring motor starting current.
- Over-molding rubber case for enhanced durability and protection.
- Clamp-on frequency function.
- Auto range/manual range selection.
- Data hold function to freeze readings on the display.
- Maximum/minimum value measurement.
- Auto power off to conserve battery life.

- Backlight for improved visibility in low-light conditions.
- Jaw lighting for illuminating the measurement area.
- Continuity checking with buzzer and Diode test.

4. PRODUCT OVERVIEW



Front view of the Mastech MS2108 Digital Clamp Meter, showing the display, function dial, buttons, and clamp jaw.



Angled view of the Mastech MS2108 Digital Clamp Meter, highlighting its ergonomic design and compact size.



Close-up view of the control panel on the Mastech MS2108, detailing the function dial, SEL, MIN/MAX, RAN, Hz/%, and B.L. HOLD buttons.



Included test leads for voltage and resistance measurements, along with protective caps.



MS2108

JAW SIZE

Φ26mm/1.0"

VOLTAGE

**AC 600V
DC 600V**

CURRENT

**AC 600A
DC 600A**

V

A

INRUSH

Ω

Hz%

Hz%

AUTO

Apo

TRMS

MAX MIN

MAX MIN

MAX MIN

Hz%

Hz%

Hz%

Hz%

Hz%

Hz%

Diagram illustrating key features and specifications of the MS2108, including jaw size, voltage, current, and various measurement functions.

5. SETUP AND BATTERY INSTALLATION

5.1 Battery Installation

The MS2108 requires 3 x 1.5V AAA batteries (not included). To install:

1. Ensure the meter is turned OFF.
2. Locate the battery compartment cover on the back of the meter.
3. Use a screwdriver to open the battery compartment.
4. Insert three AAA batteries, observing the correct polarity (+/-) as indicated inside the compartment.
5. Replace the battery compartment cover and secure it with the screw.

5.2 Connecting Test Leads

For voltage, resistance, capacitance, frequency (from test terminal), continuity, and diode measurements, connect the test leads:

- Insert the red test lead into the 'INPUT' jack.
- Insert the black test lead into the 'COM' (common) jack.

6. OPERATING INSTRUCTIONS

6.1 Function Dial

Rotate the central dial to select the desired measurement function:

- **OFF**: Turns the meter off.
- **V~**: AC Voltage measurement.
- **V-**: DC Voltage measurement.
- **A~**: AC Current measurement (using clamp).
- **A-**: DC Current measurement (using clamp).
- **Ω K $\bar{A}$** : Resistance, Continuity, Diode, Capacitance measurement. Use the 'SEL' button to cycle through these functions.
- **Hz%**: Frequency and Duty Cycle measurement.

6.2 Button Functions

- **SEL (Yellow Button)**: Selects sub-functions within a main dial position (e.g., AC/DC, Ohm/Diode/Continuity).
- **MIN/MAX**: Toggles between minimum and maximum recorded values during a measurement session.
- **RAN**: Toggles between auto-ranging and manual ranging. In manual range, press repeatedly to cycle through ranges.
- **Hz/%**: When in Voltage or Current mode, press to display frequency or duty cycle.
- **B.L. HOLD**: Short press to activate/deactivate data hold (freezes the current reading). Long press (2 seconds) to turn the backlight ON/OFF.
- **Inrush**: Press this button when the dial is in an AC/DC current position to measure inrush current.

6.3 Measurement Procedures

AC/DC Current Measurement (Clamp):

1. Turn the function dial to the A~ (AC) or A- (DC) position.

2. Open the clamp jaw and enclose a single conductor. Ensure the jaw is fully closed.
3. Read the current value on the display. For DC current, observe the polarity.

AC/DC Voltage Measurement:

1. Connect the test leads to the 'INPUT' and 'COM' jacks.
2. Turn the function dial to V~ (AC) or V- (DC).
3. Connect the test probes in parallel to the circuit or component under test.
4. Read the voltage value on the display.

Resistance, Continuity, Diode, Capacitance Measurement:

1. Connect the test leads.
2. Turn the function dial to the Ω K $\text{\AA}$ position.
3. Press the 'SEL' button to cycle through Resistance (Ω), Continuity (K), Diode ($\text{\AA}$), and Capacitance (μF) functions.
4. Connect the test probes to the component. For continuity, a buzzer will sound if resistance is below approximately 50Ω .

Inrush Current Measurement:

1. Set the function dial to A~ or A-.
2. Press the 'Inrush' button. The display will show 'Inr'.
3. Open the clamp jaw and enclose the conductor of the device you wish to test the inrush current for (e.g., motor, compressor).
4. Activate the device. The meter will capture and display the peak inrush current.

7. MAINTENANCE

7.1 Cleaning

Wipe the meter's case with a damp cloth and mild detergent. Do not use abrasives or solvents. Keep the input terminals free of dirt or debris.

7.2 Battery Replacement

When the battery symbol appears on the display, replace the batteries as described in Section 5.1. Remove batteries if the meter is not used for extended periods.

7.3 Storage

Store the meter in a cool, dry place, away from direct sunlight and extreme temperatures. If storing for a long period, remove the batteries.

8. TROUBLESHOOTING

Problem	Possible Cause	Solution
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Problem	Possible Cause	Solution
No display or dim display	Dead or low batteries	Replace batteries (Section 5.1)
Incorrect readings	Incorrect function selected; Test leads not properly connected; Exceeding input limits	Select correct function; Ensure leads are fully inserted; Do not exceed specified limits
"OL" (Overload) displayed	Input value exceeds selected range	Switch to a higher range (if in manual mode) or ensure input is within meter's capabilities
No continuity buzzer	Resistance too high; Function not set to continuity	Ensure circuit is closed and resistance is low; Press SEL to select continuity mode

9. TECHNICAL SPECIFICATIONS

The following table details the technical specifications for the Mastech MS2108 Digital Clamp Meter:

EMC LVD CE ETL LISTED CAT III 600V RoHS			
Specifications		MS2108	MS2108A
Specifications	Range	Accuracy	
DC Voltage	660mV/6.6V	±(0.8%+3)	
	66V/600V	±(1.0%+5)	
	400mV/4V		±(0.8%+3)
	40V/400V/600V		±(1.0%+5)
AC Voltage	660mV	±(1.5%+10)	
	6.6V/66V	±(1.2%+5)	
	600V	±(1.5%+10)	
	4V/40V/400V		±(0.8%+3)
	600V		±(1.0%+5)
DC Current	66A/600A	±(3.0%+10)	
	40A/400A		±(2.0%+6)
AC Current	66A/600A	±(3.0%+10)	
	40A/400A		±(2.0%+6)
Inrush Current (100ms)	66A/600A	±(10%+60)	
Resistance	660Ω/6.6kΩ/66kΩ/660kΩ/6.6MΩ	±(1.2%+2)	
	66MΩ	±(2.0%+5)	
	400Ω/4kΩ/40kΩ/400KΩ		±(0.8%+3)
	4MΩ/40MΩ		±(1.2%+3)
Capacitance	6.6μF/66μF/660μF/6.6mF/66mF	±(4.0%+3)	
	400nF/4μF/40μF/400μF/4000μF		±(4.0%+5)
Frequency (From Clamp)	0~1KHz	±(1.5%+5)	
	0~10KHz		±(1.5%+5)

Frequency (From Plug)	0~ 10KHz	±(1.5%+5)	
	0~ 10MHz		±(1.5%+5)
Duty Cycle	10%~ 90%	±3.0%	±3.0%
Features			
Display	counts	6600	4000
Jaw Opening		Φ26mm/1.0"	Φ26mm/1.0"
Auto Ranging	Auto & manual	●	●
Auto Power Off		●	●
Inrush	Inrush Current Measurement: 100ms Current Integral	●	
True RMS	TrueRootMeanSquareMeasurement	●	
Diode	2.7V	●	●
Continuity Buzzer	<50Ω	●	●
MAX/MIN		●	●
Data Hold		●	●
Low Battery Display		●	●
Display Backlight		●	●
Work Light		●	●
General			
Power Supply	3×1.5V A AA Batteries		
Product Size	208mm×78mm×35mm/8.2"×3.1"×1.4"		
Product Weight	245g/0.54lb		
Safety Rating	CE ETL CAT III 600V RoHS		

● Feature Difference

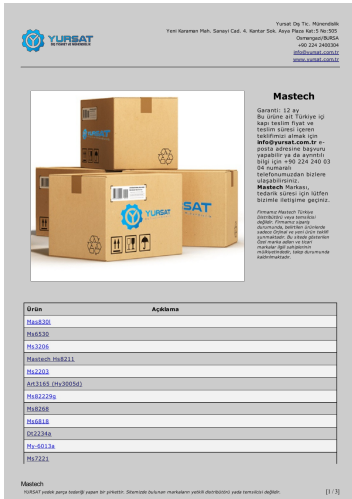
Comprehensive technical specifications table for the Mastech MS2108 and MS2108A models, detailing measurement ranges, accuracy, and general features.

- **Display:** 6600 counts
- **MAX. Diameter for conductor:** 26mm
- **Power:** 1.5V (AAA) x 3
- **Size:** 208mm x 78mm x 35 mm
- **Weight:** Approximately 1.1 Pounds (including batteries)

10. WARRANTY AND SUPPORT

Mastech products are designed for reliability and performance. This product is covered by a manufacturer's warranty against defects in materials and workmanship. For specific warranty terms and conditions, please refer to the warranty card included with your product or contact Mastech customer support.

For technical assistance, troubleshooting, or service inquiries, please contact Mastech customer support through their official website or authorized service centers. Please have your model number (MS2108) and purchase information ready when contacting support.



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[pdf] Specifications Catalog

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[pdf] User Manual Quick Start Guide Specifications

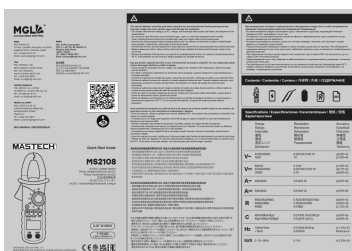
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MS2108 DIGITAL CLAMP METER OPERATION MANUAL 600V CAT III MAX 600A A **MS2108** A OFF V SEL OFF / MIN B.L MAX RAN Hz HOLD T-RMS Press 2 Sec AUTO-PWER OFF AC/DC CLAMP METER INRUSH AUTO MANU TRMS MAX MIN ZERO INRUSH CF mVA nF Mk Hz COM INPUT 600V CAT III MAX600V CONTENTS 1. Sa...

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[pdf] Specifications Catalog

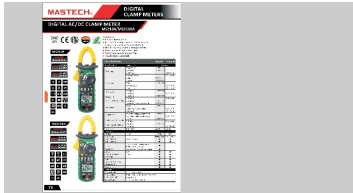
Pg 148 149 was Venus P149 jameco Jameco catalogs c101 ||| Clamp, Analog Digital Multimeters See www.Jameco.com for complete specifications 38073 DT830B M ... 179 DMM 12 DMM 13 6000 6000 100V 100V 373991 Exttech MA200 Clamp 7 2000 100V 1954682 BenchPro **MS2108** Clamp 9 6599 100V 2094119 Exttech EX613 Clamp 9 40,000 10V 374070 Exttech MA220 Clamp 10... lang:nl **score:20** filesize: 524.43 K page_count: 1 document date: 2009-12-23



[MASTECH MS2108 AC/DC Clamp Meter Quick Start Guide](#)

A concise quick start guide for the MASTECH MS2108 AC/DC Clamp Meter, detailing safety precautions, technical specifications, and basic usage instructions for measuring voltage, current, resistance, capacitance, and frequency.

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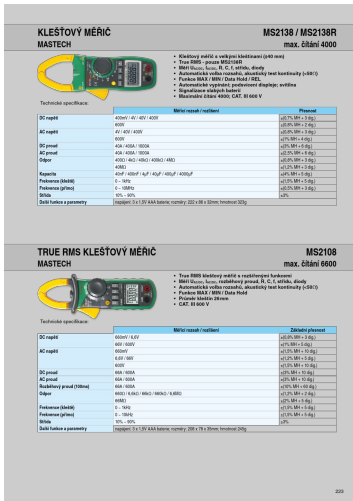


[\[pdf\]](#) User Manual Datasheet

2013 Tony 2098 340543 MS2108 clampmeter MASTECH Auto manual 400A OFF MS2108A CE D 404
CURRENT AC Inrush DC V current measurement 100ms integral ms2108 ian rcscomponents kiev ua
datasheets

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KLESOV MIC MASTECH MS2138 / MS2138R max. ctn 4000 Technick specifikace:

DC napt AC napt DC proud A ... H 3 dig. 4 MH 5 dig. 1,5 MH 5 dig. 0,5 MH 3 dig. 3
TRUE RMS KLESOV MIC MASTECH **MS2108** max. ctn 6600 True RMS klesov mic s
rozsenmi funkcemi M UAC/DC, IAC/DC, rozbhov proud, R, C...

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[\[pdf\]](#) Accessories Catalog

CATALOGUE 20231026152727744 mastech group resource |||

CATALOGUE 2021 MEASURING INSTRUMENTS CATALOGUE CONTENT INDEX
CONTENT INDEX 2 3 4 29 96 134 138 ... 114 CAT II 1000V CAT III 600V 4000 42mm
1.7 1000V 750V 1000A 1000A 40M 40F 100kHz -40-750C **MS2108** 115 CAT III 600V
6000 600V 600V 600A 600A 600A 40M 4000F 10kHz MS2109A 116 CAT III 6...

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[\[pdf\]](#) Accessories Catalog

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CATALOGUE 2024 MEASURING INSTRUMENTS CATALOGUE CONTENT INDEX
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III 600V 6000 600V 600V 600A 600A 66M 66mF 1kHz MS2109A 117 CAT III 600V
600...

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MASTECH®



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[\[pdf\]](#) Accessories Catalog

CATALOGUE 2 3 4 29 96 134 138 148 154 159 165 171 177 183 185 197 217 WHO IS MGL ABOUT
MASTECH FAST SELECTION CHARTS DIGITAL MULTIMETERS CLAMP METERS LINE SPLITTERS
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CATALOGUE 2021 MEASURING INSTRUMENTS CATALOGUE CONTENT INDEX
CONTENT INDEX 2 3 4 29 96 134 138 ... 114 CAT II 1000V CAT III 600V 4000 42mm
1.7 1000V 750V 1000A 1000A 40M 40F 100kHz -40-750C **MS2108** 115 CAT III 600V
6000 600V 600V 600A 600A 600A 40M 4000F 10kHz MS2109A 116 CAT III 6...
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MASTECH® FAST SELECTION CHARTS	
DIGITAL MULTIMETERS MANUAL RANGING	
Model	Page
CAT II 1000V	21
CAT III 600V	21
CAT IV 500V	21
CAT V 300V	21
CAT VI 200V	21
CAT VII 150V	21
CAT VIII 100V	21
CAT IX 75V	21
CAT X 50V	21
CAT XI 30V	21
CAT XII 15V	21
CAT XIII 7.5V	21
CAT XIV 3.75V	21
CAT XV 1.875V	21
CAT XVI 0.9375V	21
CAT XVII 0.46875V	21
CAT XVIII 0.234375V	21
CAT XIX 0.1171875V	21
CAT XX 0.05859375V	21
CAT XXI 0.029296875V	21
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CAT XXIII 0.00732421875V	21
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Pg 146 147 was 134 135 Venus TestTools ftp jameco Archive PreviousCatalogs Catalog 293 |||
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 38073 DT830B M ... 373991 Extech MA200 Clamp 7 2000 100V 214404 Wavetek
 AC65 Clamp 8 3999 -- 1954682 BenchPro **MS2108** Clamp 9 6599 100V 374070
 Extech MA220 Clamp 10 4000 100V 1585881 Extech EX830 Clamp 11 ...
 lang:nl **score:12** filesize: 3.47 M page_count: 20 document date: 2009-06-15



[pdf] Catalog

Pg 147 was Pandora TestTools ftp jameco Archive PreviousCatalogs Catalog 101 |||
 R DETAILS ON PAGE 190 Environmental Meters Testers Environmental Meters
 Testers 1537299 1 ... 179 DMM 12 DMM 13 6000 6000 100V 100V 373991 Extech
 MA200 Clamp 7 2000 100V 1954682 BenchPro **MS2108** Clamp 9 6599 100V
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