

DIGITAL MULTIMETERS
MANUAL RANGING

| |  |  |  |  |  |  |  |  |
|-----------------------------|---|---|---|---|--|---|---|---|
| CAT II CAT III CAT IV | | | | | | | | |
| Model | M3900 | M830B | M830BZ | M832 | M838 | MAS830 | MAS830B | MAS830L |
| Page | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 |
| Safety Rating | CAT II 1000V CAT III 600V | CAT II 600V | CAT II 600V | CAT II 600V | CAT II 600V | CAT III 600V | CAT III 600V | CAT III 600V |
| Display Counts | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 |
| Auto Ranging | | | | | | | | |
| Auto Power Off | | | | | | | | |
| True RMS | | | | | | | | |
| DC Voltage | 1000V | 600V | 600V | 600V | 600V | 600V | 600V | 600V |
| AC Voltage | 750V | 600V | 600V | 600V | 600V | 600V | 600V | 600V |
| DC Current | 10A | 10A | 10A | 10A | 10A | 10A | 10A | 10A |
| AC Current | 10A | | | | | | | |
| Resistance | 20MΩ | 2MΩ | 2MΩ | 2MΩ | 2MΩ | 2MΩ | 2MΩ | 2MΩ |
| Capacitance | | | | | | | | |
| Frequency | | | | | | | | |
| Duty Cycle | | | | | | | | |
| Type K Temperature | | | | | | | | -20~1370°C |
| Battery Test | | | | | | | | |
| Diode | • | • | • | • | • | • | • | • |
| Continuity | • | | • | • | • | • | | • |
| Display Backlight | | | | | | | | • |
| Work Light | | | | | | | | • |
| Data Hold | | | | | | • | | • |
| NCV | | | | | | | | |
| Inductance | | | | | | | | |
| hFE Transistor | • | • | | • | • | | | • |
| Dual Display | | | | | | | | |
| MAX | | | | | | | | |
| MAX/MIN | | | | | | | | |
| MAX/MIN/AVG | | | | | | | | |
| Relative Measurement | | | | | | | | |
| Peak Measurement | | | | | | | | |
| DWELL Test | | | | | | | | |
| TACH Test | | | | | | | | |

DIGITAL MULTIMETERS
MANUAL RANGING

CAT II
CAT III
CAT IV



| Model | MAS838 | MS8233A | MS8233B | MS8233C | MS8238 | MS8261 | MS8264 | MS8269 |
|----------------------|-------------|--------------|--------------|-------------------------|--------------|------------------------------|------------------------------|------------------------------|
| Page | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 |
| Safety Rating | CAT II 600V | CAT III 600V | CAT III 600V | CAT III 600V | CAT III 600V | CAT II 1000V CAT III 600V | CAT II 1000V CAT III 600V | CAT II 1000V CAT III 600V |
| Display Counts | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 |
| Auto Ranging | | | | | | | | |
| Auto Power Off | | | | | | • | • | • |
| True RMS | | | | | | | | |
| DC Voltage | 600V | 600V | 600V | 600V | 600V | 1000V | 1000V | 1000V |
| AC Voltage | 600V | 600V | 600V | 600V | 600V | 750V | 750V | 750V |
| DC Current | 10A | 10A | 10A | 10A | 10A | 10A | 10A | 10A |
| AC Current | | | | | | 10A | 10A | 10A |
| Resistance | 2MΩ | 2MΩ | 2MΩ | 2MΩ | 2MΩ | 200MΩ | 200MΩ | 20MΩ |
| Capacitance | | | | | | 20μF | 20μF | 20μF |
| Frequency | | | | | | | 20kHz | |
| Duty Cycle | | | | | | | | |
| Type K Temperature | -20~1000°C | | | -20~1000°C -4~1832°F | | | -20~1000°C | -20~1000°C |
| Battery Test | | | | | • | | | |
| Diode | • | • | • | • | • | • | • | • |
| Continuity | • | • | • | • | • | • | • | • |
| Display Backlight | | | • | • | | • | • | |
| Work Light | | | | | | | | |
| Data Hold | • | • | • | • | | • | • | • |
| NCV | | | • | • | | | | |
| Inductance | | | | | | | | 20H |
| hFE Transistor | | | | | | • | • | • |
| Dual Display | | | | | | | | |
| MAX | | | | | | | | |
| MAX/MIN | | | | | | | | |
| MAX/MIN/AVG | | | | | | | | |
| Relative Measurement | | | | | | | | |
| Peak Measurement | | | | | | | | |
| DWELL Test | | | | | | | | |
| TACH Test | | | | | | | | |








DIGITAL MULTIMETERS
MANUAL RANGING

CAT II
CAT III
CAT IV



| Model | MS8301A | MS8301B | MS8321A | MS8321D | MS8360C | MS8360E | MY60 | MY61 |
|----------------------|--------------|--------------|--------------|------------------------------|-------------------------|--------------|------------------------------|------------------------------|
| Page | 47 | 48 | 49 | 50 | 51 | 52 | 53 | 54 |
| Safety Rating | CAT III 600V | CAT III 600V | CAT III 600V | CAT II 1000V CAT III 600V | CAT III 600V | CAT III 600V | CAT II 1000V CAT III 600V | CAT II 1000V CAT III 600V |
| Display Counts | 2000 | 4000 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 |
| Auto Ranging | • | • | | | | | | |
| Auto Power Off | • | • | • | • | • | • | • | • |
| True RMS | | | | | | | | |
| DC Voltage | 600V | 600V | 600V | 1000V | 600V | 600V | 1000V | 1000V |
| AC Voltage | 600V | 600V | 600V | 750V | 600V | 600V | 700V | 700V |
| DC Current | | 10A | 10A | 20A | 10A | 10A | 10A | 10A |
| AC Current | 10A | 10A | 10A | 20A | 10A | 10A | 10A | 10A |
| Resistance | 2MΩ | 40MΩ | 20MΩ | 20MΩ | 200MΩ | 200MΩ | 200MΩ | 200MΩ |
| Capacitance | | 100μF | | | 200μF | 200μF | | 100μF |
| Frequency | | 10kHz | | | 20kHz | | | |
| Duty Cycle | | | | | | | | |
| Type K Temperature | | -4~1832°F | | | -20~1000°C -4~1832°F | | | |
| Battery Test | • | | | | | | | |
| Diode | • | • | • | • | • | • | • | • |
| Continuity | • | • | • | • | • | • | • | • |
| Display Backlight | | • | | | • | • | | |
| Work Light | | • | | | | | | |
| Data Hold | • | • | • | • | • | • | • | • |
| NCV | | • | | | • | • | | |
| Inductance | | | | | | 20H | | |
| hFE Transistor | | | • | • | | | • | • |
| Dual Display | | | | | | | | |
| MAX | | | | | | | | |
| MAX/MIN | | | | | | | | |
| MAX/MIN/AVG | | | | | | | | |
| Relative Measurement | | | | | | | | |
| Peak Measurement | | | | | | | | |
| DWELL Test | | | | | | | | |
| TACH Test | | | | | | | | |








**DIGITAL MULTIMETERS
MANUAL RANGING**

| |  |  |  |  |  |  |  |
|----------------------|---|---|---|---|---|---|---|
| Model | MY62 | MY63 | MY64 | MY65 | MY70 | MY74 | MY75 |
| Page | 55 | 56 | 57 | 58 | 59 | 60 | 61 |
| Safety Rating | CAT II 1000V CAT III 600V | CAT II 1000V CAT III 600V | CAT II 1000V CAT III 600V | CAT II 1000V CAT III 600V | CAT III 600V | CAT III 600V | CAT III 600V |
| Display Counts | 2000 | 2000 | 2000 | 20000 | 2000 | 2000 | 20000 |
| Auto Ranging | | | | | | | |
| Auto Power Off | • | • | • | • | • | • | • |
| True RMS | | | | | | | |
| DC Voltage | 1000V | 1000V | 1000V | 1000V | 600V | 600V | 600V |
| AC Voltage | 750V | 750V | 750V | 700V | 600V | 600V | 600V |
| DC Current | 10A | 10A | 10A | 10A | 10A | 10A | 10A |
| AC Current | 10A | 10A | 10A | 10A | 10A | 10A | 10A |
| Resistance | 200MΩ | 200MΩ | 200MΩ | 200MΩ | 200MΩ | 200MΩ | 200MΩ |
| Capacitance | 100μF | 100μF | 100μF | 100μF | | 100μF | 200nF |
| Frequency | | 2kHz | 20kHz | 20kHz | | 20kHz | 20kHz |
| Duty Cycle | | | | | | | |
| Type K Temperature | -20~1000°C | | -20~1000°C | | -20~1000°C | | |
| Battery Test | | | | | | | |
| Diode | • | | | | • | • | • |
| Continuity | • | • | • | • | • | • | • |
| Display Backlight | | | | | | | |
| Work Light | | | | | | | |
| Data Hold | • | • | • | • | • | • | • |
| NCV | | | | | | | |
| Inductance | | | | | | | |
| hFE Transistor | • | • | • | • | • | • | |
| Dual Display | | | | | | | |
| MAX | | | | | | | |
| MAX/MIN | | | | | | | |
| MAX/MIN/AVG | | | | | | | |
| Relative Measurement | | | | | | | |
| Peak Measurement | | | | | | | |
| DWELL Test | | | | | | | |
| TACH Test | | | | | | | |







DIGITAL MULTIMETERS AUTO RANGING

| | NEW | | | | | | |
|---------------------------|-----------------------------|------------------------------|---------------|-------------|-------------------------|-------------------------|-------------------------|
| | CAT II | CAT III | CAT IV | | | | |
| Model | MS820L | MS8217 | MS8221C | MS8233D | MS8233E | MS8238H | MS8239C |
| Page | 62 | 63 | 64 | 65 | 66 | 67 | 68 |
| Safety Rating | CAT II 600V CAT III 300V | CAT II 1000V CAT III 600V | CAT II 600V | CAT II 600V | CAT III 600V | CAT III 600V | CAT III 600V |
| Display Counts | 2000 | 4000 | 2000 | 2000 | 2000 | 4000 | 4000 |
| Auto Ranging | | • | • | • | • | • | • |
| Auto Power Off | • | • | • | • | • | • | • |
| True RMS | | | | | | • | |
| DC Voltage | 500V | 1000V | 600V | 600V | 600V | 600V | 600V |
| AC Voltage | 500V | 1000V | 600V | 600V | 600V | 600V | 600V |
| DC Current | 10A | 10A | 10A | 10A | 10A | 10A | 10A |
| AC Current | | 10A | 10A | 10A | 10A | 10A | 10A |
| Resistance | 200MΩ | 40MΩ | 20MΩ | 20MΩ | 20MΩ | 40MΩ | 40MΩ |
| Capacitance | | 100μF | 1000μF | | | | 100μF |
| Frequency | | 100kHz | 400Hz | 20kHz | | | 10kHz |
| Duty Cycle | | | | | | | • |
| Type K Temperature | | -55~1000°C | -20~1000°C | | -20~1000°C -4~1832°F | -20~1000°C -4~1832°F | -20~1000°C -4~1832°F |
| Battery Test | | | | | | • | |
| Diode | | • | • | • | • | • | • |
| Continuity | • | • | • | • | • | • | • |
| Display Backlight | | | | • | • | | • |
| Work Light | | | | | | | |
| Data Hold | • | • | | • | • | • | • |
| NCV | | | | • | • | • | |
| Inductance | | | | | | | |
| hFE Transistor | | | • | | | | |
| Dual Display | | | | | | | |
| MAX | | | | • | • | | |
| MAX/MIN | | | | | | | |
| MAX/MIN/AVG | | | | | | | |
| Relative Measurement | | • | | | | | |
| Peak Measurement | | | | | | | |
| Low Pass Filter | | | | | | | |
| AC/DC Current (For Clamp) | | | | | | | |
| Low Impedance | | | | | | | |
| Bar Graph | | | | | | | |
| Interface | | | | | | | Wireless |








DIGITAL MULTIMETERS AUTO RANGING

| |  |  |  |  |  |  |  |
|-----------------------|---|---|---|---|---|---|---|
| | CAT II CAT III CAT IV | | | | | | |
| Model | MS8250A | MS8250D | MS8251A | MS8251B | MS8268 | MS8301D | MS8332C |
| Page | 69 | 70 | 71 | 72 | 73 | 74 | 75 |
| Safety Rating | CAT IV 600V | CAT III 1000V CAT IV 600V | CAT III 1000V CAT IV 600V | CAT III 1000V CAT IV 600V | CAT II 1000V CAT III 600V | CAT III 600V | CAT III 600V |
| Display Counts | 4000 | 6600 | 6600 | 6600 | 4000 | 6000 | 4000 |
| Auto Ranging | • | • | • | • | • | • | • |
| Auto Power Off | • | • | • | • | • | • | • |
| True RMS | | • | | • | | | |
| DC Voltage | 600V | 1000V | 1000V | 1000V | 1000V | 600V | 600V |
| AC Voltage | 600V | 1000V | 1000V | 1000V | 750V | 600V | 600V |
| DC Current | 10A | 10A | 10A | 10A | 10A | | 400mA |
| AC Current | 10A | 10A | 10A | 10A | 10A | | 400mA |
| Resistance | 40MΩ | 66MΩ | 66MΩ | 66MΩ | 40MΩ | 10MΩ | 40MΩ |
| Capacitance | 100μF | 66mF | 66mF | 66mF | 200μF | | 100μF |
| Frequency | 5MHz | 66MHz | 66MHz | 10kHz | 200kHz | 3kHz | 5MHz |
| Duty Cycle | • | • | • | • | • | • | • |
| Type K Temperature | | | 0~1000°C 32~1832°F | 0~1000°C 32~1832°F | | | |
| Battery Test | | | | | | | |
| Diode | • | • | • | • | • | | • |
| Continuity | • | • | • | • | • | • | • |
| Display Backlight | • | • | • | • | • | • | • |
| Work Light | | | | | | | |
| Data Hold | • | • | • | • | • | • | • |
| NCV | • | • | • | • | | • | • |
| Inductance | | | | | | | |
| hFE Transistor | | | | | • | | |
| Dual Display | | • | • | • | | • | |
| MAX | | | | | | | |
| MAX/MIN | | • | • | • | | • | |
| MAX/MIN/AVG | | | | | | | |
| Relative Measurement | • | • | • | • | • | | |
| Peak Measurement | | | | | | | |
| Low Pass Filter | | | | | | | |
| Sound & Light Warning | | | | | • | | |
| Low Impedance | | | | • | | | |
| Bar Graph | | | | • | | | |
| Interface | | USB | | | | | |

DIGITAL MULTIMETERS AUTO RANGING

| |  |  |  |  |  |  |
|-----------------------------|---|---|---|---|---|---|
| CAT II CAT III CAT IV | | | | | | |
| Model | MS8340A | MS8360F | MS8360G | MS8361D | MY68 | MY78 |
| Page | 76 | 77 | 78 | 79 | 80 | 81 |
| Safety Rating | CAT III 1000V | CAT III 600V | CAT III 600V | CAT III 600V | CAT II 1000V CAT III 600V | CAT II 1000V CAT III 600V |
| Display Counts | 6000 | 4000 | 4000 | 4000 | 4000 | 4000 |
| Auto Ranging | • | • | • | • | • | • |
| Auto Power Off | • | • | • | • | • | • |
| True RMS | | | | • | | |
| DC Voltage | 1000V | 600V | 600V | 600V | 1000V | 600V |
| AC Voltage | 750V | 600V | 600V | 600V | 700V | 600V |
| DC Current | 10A | 10A | 10A | 10A | 10A | 10A |
| AC Current | 10A | 10A | 10A | 10A | 10A | 10A |
| Resistance | 60MΩ | 40MΩ | 40MΩ | 40MΩ | 40MΩ | 40MΩ |
| Capacitance | 400μF | 200μF | 4000μF | 99.99mF | 200μF | 200μF |
| Frequency | 10MHz | 10MHz | 10MHz | 10kHz | 100kHz | 200kHz |
| Duty Cycle | • | • | • | • | | • |
| Type K Temperature | -10~700°C 14~1292°F | | -20~1000°C -4~1832°F | | | |
| Battery Test | | | | | | |
| Diode | • | • | • | • | • | • |
| Continuity | • | • | • | • | • | • |
| Display Backlight | • | • | • | • | | |
| Work Light | | | | | | |
| Data Hold | • | • | • | • | • | • |
| NCV | | • | • | • | | |
| Inductance | | | | | | |
| hFE Transistor | | | | • | • | • |
| Dual Display | | | | | | |
| MAX | | | | | | |
| MAX/MIN | • | | • | | | |
| MAX/MIN/AVG | | | | | | |
| Relative Measurement | • | • | • | • | | • |
| Peak Measurement | | | | | | |
| Low Pass Filter | • | | | | | |
| AC/DC Current (For Clamp) | | | | | | • |
| Low Impedance | | | | | | |
| Bar Graph | | | • | | | |
| Interface | Wireless | | | | | |

**DIGITAL MULTIMETERS
POCKET/PEN TYPE**

| |  |  |  |  |  |  |  |
|----------------------|---|---|---|---|---|---|---|
| | CAT II CAT III CAT IV | | | | | | |
| Model | M300 | M320 | MS8333A | MS8211 | MS8211D | MS8212A | MS8223A |
| Page | 82 | 83 | 84 | 85 | 86 | 87 | 88 |
| Safety Rating | CAT II 600V CAT III 300V | CAT II 600V CAT III 300V | CAT III 600V | CAT II 600V | CAT II 600V | CAT III 600V | CAT III 600V |
| Display Counts | 2000 | 4000 | 6000 | 2000 | 2000 | 2000 | 2000 |
| Auto Ranging | | • | • | • | • | • | • |
| Auto Power Off | | • | • | • | • | • | • |
| True RMS | | | • | | | | |
| DC Voltage | 600V | 600V | 600V | 600V | 600V | 600V | 600V |
| AC Voltage | 600V | 600V | 600V | 600V | 600V | 600V | 600V |
| DC Current | 200mA | 400mA | 600mA | | 200mA | 200mA | 200mA |
| AC Current | | 400mA | 600mA | | 200mA | 200mA | 200mA |
| Resistance | 20MΩ | 40MΩ | 60MΩ | 20MΩ | 20MΩ | 20MΩ | 20MΩ |
| Capacitance | | 100μF | 600μF | | | | |
| Frequency | | 100kHz | 10kHz | | | | |
| Duty Cycle | | | • | | | | |
| Type K Temperature | | | | | | | |
| Battery Test | | | • | | | | |
| Diode | • | • | • | • | • | • | • |
| Continuity | • | • | • | • | • | • | • |
| Display Backlight | | | • | | | | |
| Work Light | | | | | | | • |
| Data Hold | | • | • | • | • | • | • |
| NCV | | | • | • | | • | • |
| Inductance | | | | | | | |
| hFE Transistor | | | | | | | |
| Dual Display | | | | | | | |
| MAX | | | | • | • | • | • |
| MAX/MIN | | | | | | | |
| MAX/MIN/AVG | | | | | | | |
| Relative Measurement | | | | | | | |
| Peak Measurement | | | | | | | |
| DWELL Test | | | | | | | |
| TACH Test | | | | | | | |
| Logic Level Test | | | | | • | • | • |
| Retractable Tip | | | | • | • | | |
| Double Molding | | | | | | • | • |

DIGITAL MULTIMETERS
BENCH TYPE

 CAT II
 CAT III
 CAT IV


| Model | MS6100 | MS8040 | MS8050 |
|------------------------|---------|--------------------------|--------------|
| Page | 89 | 90 | 91 |
| Safety Rating | | CAT II 1000V | CAT II 1000V |
| Display Counts | 22000 | 22000 | 53000 |
| Auto Ranging | • | • | • |
| Auto Power Off | | • | • |
| True RMS | | • | • |
| DC Voltage | | 1000V | 1000V |
| AC Voltage | | 750V | 1000V |
| DC Current | | 10A | 10A |
| AC Current | | 10A | 10A |
| Resistance | | 200MΩ | 50MΩ |
| Capacitance | | 20mF | 5000μF |
| Frequency | 1300MHz | | |
| Logic Frequency | | 220MHz | 2MHz |
| Linear Frequency | | 100kHz | 200kHz |
| Duty Cycle | | • | • |
| OSC. Out | 10MHz | | |
| Type K Temperature | | -30~1300°C -22~2372°F | |
| Diode | | • | • |
| hFE Transistor | | | |
| Continuity | | • | • |
| Backlight | | • | • |
| Data Hold | • | • | • |
| MAX/MIN/AVG | | MAX/MIN | • |
| Relative Measurement | • | • | • |
| Peak Measurement | | • | |
| Low Pass Filter | • | • | |
| Bar Graph | | • | |
| DC Current (For Clamp) | | 220/2200A | |
| AC Current (For Clamp) | | 220/2200A | |
| ADP measurement | | | |
| Data Logging | | | 30 Groups |
| Analysis Software | | | • |
| Interface | | USB | USB |






DIGITAL MULTIMETERS
SPECIAL APPLICATION

CAT II
CAT III
CAT IV










| Model | MS5208 | MS8209 | MS8229 | MS8236 | MS8239D | MS8265 |
|-------------------------|------------------------------|-------------------------|-------------------------|--------------|----------------|------------------------------|
| Page | 92 | 93 | 94 | 95 | 96 | 97 |
| Safety Rating | CAT III 1000V CAT IV 600V | CAT III 600V | CAT III 600V | CAT III 600V | CAT III 600V | CAT II 1000V CAT III 600V |
| Display Counts | 6600 | 4000 | 4000 | 2000 | 2000 | 20000 |
| Auto Ranging | • | • | • | • | • | • |
| Auto Power Off | • | • | • | • | • | • |
| True RMS | • | | | | | |
| DC/AC Voltage | 1000V/750V | 600V/600V | 1000V/750V | 600V/600V | 600V/600V | 1000V/750V |
| DC/AC Current | 400mA/400mA | 10A/10A | 10A/10A | 10A/10A | 10A/10A | 10A/10A |
| Resistance | 66MΩ | 40MΩ | 40MΩ | 20MΩ | 40MΩ | 200MΩ |
| Capacitance | 66mF | 200μF | 100μF | | | 200μF |
| Frequency | 10kHz | 200kHz | 200kHz | | | 20kHz |
| Duty Cycle | • | • | | | | |
| Diode | • | • | • | • | • | • |
| Type K Temperature | -30~1300°C -22~2372°F | -20~1000°C -4~1832°F | -20~1000°C -4~1832°F | | | |
| Continuity | • | • | • | • | • | • |
| Display Backlight | • | • | • | • | • | • |
| Data Hold | • | • | • | • | • | • |
| NCV | | | | • | | |
| hFE Transistor | | | | | | • |
| MAX | | | | • | • | |
| MAX/MIN | | | | | | |
| MAX/MIN/AVG | • | | | | | |
| Relative Measurement | • | • | | | | |
| Low Pass Filter | • | | | | | |
| Insulation Test | 1000V/2GΩ | | | | | |
| DAR/PI | • | | | | | |
| Relative Humidity | | 30~90% | 20~95% | | | |
| Sound level | | 35~100dB | 40~100dB | | | |
| Luminosity | | 40000Lux | 4000/40000Lux | | | |
| Environment Temperature | | | 0~40°C/32~104°F | | | |
| Cable Check | | | | | RJ11/RJ45/Tone | |
| Sound & Light Warning | | | • | | | • |
| Data Logging | 100 Groups | | | | | |
| Interface | | | | | | |
| DWELL/TACH Test | | | | • | | |








DIGITAL CLAMP METERS AC CURRENT

| | NEW  | NEW  | NEW  | NEW  | NEW  |
|-----------------------------|--|--|--|--|--|
| CAT II CAT III CAT IV | | | | | |
| Model | MS2037A | MS2037B | MS2037C | MS2137A | MS2137B |
| Page | 99 | 100 | 101 | 102 | 103 |
| Safety Rating | CAT III 600V | CAT III 600V | CAT III 600V | CAT III 600V | CAT III 600V |
| Display Counts | 4000 | 4000 | 6000 | 4000 | 6000 |
| Jaw Size | Φ26mm 1.0" | Φ26mm 1.0" | Φ26mm 1.0" | Φ26mm 1.0" | Φ26mm 1.0" |
| Auto Ranging | • | • | • | • | • |
| Auto Power Off | • | • | • | • | • |
| True RMS | • | • | • | • | • |
| DC Voltage | 600V | 600V | 600V | 600V | 600V |
| AC Voltage | 600V | 600V | 600V | 600V | 600V |
| DC Current | | | | 600A | 600A |
| AC Current | 600A | 600A | 600A | 600A | 600A |
| Resistance | 40MΩ | 40MΩ | 60MΩ | 40MΩ | 60MΩ |
| Capacitance | | | 60mF | | 60mF |
| Frequency | | | 60MHz | | 60MHz |
| Duty Cycle | | | 1~99% | | 1~99% |
| Type K Temperature | | -20°C~1000°C -4°F~1832°F | -20°C~1000°C -4°F~1832°F | | -20°C~1000°C -4°F~1832°F |
| Diode | • | • | • | • | • |
| Continuity | • | • | • | • | • |
| Display Backlight | | • | • | • | • |
| Work Light | | • | • | • | • |
| Data Hold | • | • | • | • | • |
| NCV | • | • | • | • | • |
| MAX/MIN | | | | | |
| Relative Measurement | | | | | |
| Bar Graph | | | | | |
| Insulation Test | | | | | |
| DC Current (From Plug) | | | | | |
| Low Pass Filter | | | | | |
| Low Impedance | | | | | |
| Dual Display | | | | | |
| Infrared Temperature | | | | | |
| Interface | | | | | |

DIGITAL CLAMP METERS AC CURRENT







| |  |  |  |  |  |  |  |
|------------------------|---|---|---|---|---|---|---|
| Model | M266 | M266C | M266F | MS2000G | MS2001 | MS2001C | MS2001F |
| Page | 104 | 105 | 106 | 107 | 108 | 109 | 110 |
| Safety Rating | CAT II 1000V CAT III 600V | CAT II 1000V CAT III 600V | CAT II 1000V CAT III 600V | CAT II 1000V | CAT II 1000V CAT III 600V | CAT II 1000V CAT III 600V | CAT III 600V CAT IV 600V |
| Display Counts | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 |
| Jaw Size | Φ50mm 2.0" | Φ50mm 2.0" | Φ50mm 2.0" | Φ55mm 2.2" | Φ42mm 1.7" | Φ42mm 1.7" | Φ42mm 1.7" |
| Auto Ranging | | | | | | | |
| Auto Power Off | | | | | | | |
| True RMS | | | | | | | |
| DC Voltage | 1000V | 1000V | 1000V | 1000V | 1000V | 1000V | 1000V |
| AC Voltage | 750V | 750V | 750V | 750V | 750V | 750V | 750V |
| DC Current | | | | | | | |
| AC Current | 1000A | 1000A | 1000A | 2000A | 1000A | 1000A | 1000A |
| Resistance | 20kΩ | 20MΩ | 2MΩ | 2MΩ | 2000Ω | 2000Ω | 2000Ω |
| Capacitance | | | | | | | |
| Frequency | | | 2kHz | 20kHz | | | 2kHz |
| Duty Cycle | | | | | | | |
| Type K Temperature | | 0~750°C 32~1382°F | | 0~750°C 32~1382°F | | -40~750°C | |
| Diode | | | • | • | • | | • |
| Continuity | • | • | • | • | • | • | • |
| Display Backlight | | | | • | • | • | |
| Work Light | | | | | | | |
| Data Hold | • | • | • | • | • | • | • |
| NCV | | | | | | | |
| MAX/MIN | | | | | | | |
| Relative Measurement | | | | | | | |
| Bar Graph | | | | | | | |
| Insulation Test | 2000MΩ | 2000MΩ | 2000MΩ | | | | |
| DC Current (From Plug) | | | | | | | |
| Low Pass Filter | | | | | | | |
| Low Impedance | | | | | | | |
| Dual Display | | | | | | | |
| Infrared Temperature | | | | | | | |
| Interface | | | | | | | |

DIGITAL CLAMP METERS AC CURRENT

| |  |  |  |  |  |  |  |
|------------------------|---|---|---|---|---|---|---|
| Model | MS2008B | MS2009A | MS2009C | MS2025A | MS2025C | MS2026R | MS2028A |
| Page | 111 | 112 | 113 | 114 | 115 | 116 | 117 |
| Safety Rating | CAT III 600V | CAT III 600V | CAT III 600V | CAT III 1000V CAT IV 600V | CAT III 1000V CAT IV 600V | CAT III 600V | CAT III 600V |
| Display Counts | 4000 | 2000 | 6000 | 6000 | 6600 | 6000 | 2000 |
| Jaw Size | Φ26mm 1.0" | Φ26mm 1.0" | Φ26mm 1.0" | Φ40mm 1.6" | Φ40mm 1.6" | Φ40mm 1.6" | Φ26mm 1.0" |
| Auto Ranging | • | • | • | • | • | • | • |
| Auto Power Off | • | • | • | • | • | • | • |
| True RMS | | | | • | • | • | • |
| DC Voltage | 600V | 600V | 600V | 1000V | 1000V | 1000V | 600V |
| AC Voltage | 600V | 600V | 600V | 750V | 750V | 750V | 600V |
| DC Current | | | | | | | |
| AC Current | 600A | 600A | 600A | 10A | 1000A | 1000A | 600A |
| Resistance | 40MΩ | 20MΩ | 60MΩ | 60MΩ | 66MΩ | 60MΩ | 20MΩ |
| Capacitance | 100μF | | 60mF | 100mF | 66mF | 4000μF | |
| Frequency | 100kHz | | 1kHz | 10kHz | 66MHz | 10kHz | |
| Duty Cycle | | | • | • | • | • | |
| Type K Temperature | -20~750°C | | -20~1000°C -4~1832°F | | -20~1000°C -4~1832°F | | |
| Diode | • | • | • | • | • | • | • |
| Continuity | • | • | • | • | • | • | • |
| Display Backlight | • | • | • | • | • | • | • |
| Work Light | | • | • | • | • | • | |
| Data Hold | • | • | • | • | • | • | • |
| NCV | | • | • | • | • | | |
| MAX/MIN | | MAX | | • | • | • | Max |
| Relative Measurement | | | | • | • | • | |
| Bar Graph | | | | | • | | |
| Insulation Test | | | | | | | |
| DC Current (From Plug) | | | | | | | |
| Low Pass Filter | | | | | | | |
| Low Impedance | | | | | | | |
| Dual Display | | | | | • | | |
| Infrared Temperature | | | | | | | |
| Interface | | | | | | | |

DIGITAL CLAMP METERS AC CURRENT

DIGITAL CLAMP METERS AC/DC CURRENT

| |  |  |  |  |  |  |
|--|---|---|---|--|---|---|
| CAT II CAT III CAT IV | | | | | | |
| Model | MS2030 | MS2030B | MS2033A | MS2101 | MS2108 | MS2109A |
| Page | 118 | 119 | 120 | 121 | 122 | 123 |
| Safety Rating | CAT III 600V | CAT III 600V | CAT III 600V | CAT II 1000V CAT III 600V | CAT III 600V | CAT III 600V |
| Display Counts | 2000 | 4000 | 6000 | 4000 | 6000 | 6000 |
| Jaw Size | Φ28mm 1.1" | Φ28mm 1.1" | Φ26mm 1.0" | Φ42mm 1.7" | | Φ26mm 1.0" |
| Auto Ranging | | • | • | • | • | • |
| Auto Power Off | | • | • | • | • | • |
| True RMS | | | | | | |
| DC Voltage | 600V | 600V | 600V | 1000V | 600V | 600V |
| AC Voltage | 600V | 600V | 600V | 750V | 600V | 600V |
| DC Current | | | | 1000A | 600A | 600A |
| AC Current | 400A | 600A | 600A | 1000A | 600A | 600A |
| Resistance | 2kΩ | 40MΩ | 10MΩ | 40MΩ | 66MΩ | 60MΩ |
| Capacitance | | 100μF | | 100μF | 66mF | MS2109A |
| Frequency | | 10kHz | 3kHz | 100kHz | 1kHz | 10MHz |
| Duty Cycle | | | • | • | • | • |
| Type K Temperature | | -20~1000°C -4~1832°F | | -40~750°C | | -20~1000°C -4~1832°F |
| Diode | • | • | | • | • | • |
| Continuity | • | • | • | • | • | • |
| Display Backlight | | • | • | | • | • |
| Work Light | | • | | | • | • |
| Data Hold | • | • | • | • | • | • |
| NCV | | • | | | | • |
| MAX/MIN | | | • | | | • |
| Relative Measurement | | | | • | | • |
| Bar Graph | | | | | | |
| Insulation Test | | | | | | |
| DC Current (From Plug) | | | | | | |
| Low Pass Filter | | | | | | |
| Low Impedance | | | | | | |
| Dual Display | | | • | | | |
| Infrared Temperature | | | | | | |
| Interface | | | | | | |

DIGITAL CLAMP METERS
AC/DC CURRENT






CAT II
CAT III
CAT IV









| Model | MS2125A | MS2128 | MS2128A | MS2138 | MS2138R | MS2160 |
|------------------------|-----------------------------|---------------|---------------|---------------|---------------|-----------------------------|
| Page | 124 | 125 | 126 | 127 | 128 | 129 |
| Safety Rating | CAT III 1000V CAT IV 600 | CAT III 600V | CAT III 600V | CAT III 600V | CAT III 600V | CAT III 1000V CAT IV 600 |
| Display Counts | 6000 | 6600 | 4000 | 4000 | 4000 | 4000 |
| Jaw Size | Φ40mm 1.6" | Φ26mm 1.0" | Φ26mm 1.0" | Φ26mm 1.0" | Φ26mm 1.0" | Φ24mm 0.9" |
| Auto Ranging | • | • | • | • | • | • |
| Auto Power Off | • | • | • | • | • | • |
| True RMS | • | • | • | | • | |
| DC Voltage | 1000V | 600V | 600V | 600V | 600V | 600V |
| AC Voltage | 750V | 600V | 600V | 600V | 600V | 600V |
| DC Current | 1000A | 600A | 400A | 1000A | 1000A | 80A |
| AC Current | 1000A | 600A | 400A | 1000A | 1000A | 80A |
| Resistance | 60MΩ | 66MΩ | 40MΩ | 40MΩ | 40MΩ | 40MΩ |
| Capacitance | 100mF | 66mF | 4000μF | 4000μF | 4000μF | 40mF |
| Frequency | 1000Hz | 1000Hz | 1000Hz | 10kHz | 10kHz | 10kHz |
| Duty Cycle | • | • | • | • | • | • |
| Type K Temperature | | | | | | -20~1000°C -4~1832°F |
| Diode | • | • | • | • | • | • |
| Continuity | • | • | • | • | • | • |
| Display Backlight | • | • | • | • | • | • |
| Work Light | • | • | • | • | • | • |
| Data Hold | • | • | • | • | • | • |
| NCV | • | | | | | • |
| MAX/MIN | • | • | • | | | |
| Relative Measurement | • | | • | • | • | |
| Bar Graph | | | • | • | • | |
| Insulation Test | | | | | | |
| DC Current (From Plug) | | | | | | |
| Low Pass Filter | | | | | | |
| Low Impedance | | | | | | |
| Dual Display | | | | | | |
| Infrared Temperature | | | | | | |
| Interface | | | | | | |

DIGITAL CLAMP METERS LEAKGE

DIGITAL CLAMP METERS POWER

| |  |  |  |  |  |
|----------------------|---|---|---|---|---|
| | CAT II CAT III CAT IV | | | | |
| Model | MS2006B | MS2016A | MS2203 | MS2205 | MS2225A |
| Page | 130 | 131 | 132 | 133 | 134 |
| Safety Rating | CAT III 600V | CAT III 600V | CAT III 600V | CAT III 600V | CAT III 1000V |
| Display Counts | 2000 | 4000 | 9999 | 6000 | 6000 |
| Jaw Size | Φ31mm 1.2" | Ø30mm 1.2" | Φ50mm 2.0" | Φ50mm 2.0" | Φ40mm 1.6" |
| Auto Ranging | | • | • | • | • |
| Auto Power Off | • | • | | • | • |
| True RMS | | • | • | • | • |
| DC Voltage | | 600V | | | 1000V |
| AC Voltage | | 600V | 600V | 600V | 750V |
| DC Current | | | | | |
| AC Current | 60A | 150A | 1000A | 1000A | 1000A |
| Resistance | | 40MΩ | | | 60MΩ |
| Capacitance | | 40mF | | | 100mF |
| Frequency | | | 1000Hz | 1000Hz | 10kHz |
| Duty Cycle | | | | | • |
| Type K Temperature | | -20~1000°C -4~1832°F | | | |
| Diode | | • | | | • |
| Continuity | | • | | | • |
| Display Backlight | | | • | • | • |
| Work Light | | | | | • |
| Data Hold | • | • | • | • | • |
| NCV | | | | | • |
| MAX/MIN | | • | • | | • |
| Relative Measurement | | | | | • |
| Bar Graph | | | • | | |
| Active Power | | | 600kW | 600kW | 750kW |
| Apparent Power | | | 600kVA | 600kVA | 750kVA |
| Reactive Power | | | 600kVAr | 600kVAr | 750kVAr |
| Power Factor | | | 0.3~1 | 0.3~1 | 0.3~1 |
| Active Energy | | | 9999kWh | | |
| Harmonic Measurement | | | | 45~65Hz | 45~65Hz |
| Data Logging | | | 28 Groups | 100 Groups | |
| Interface | | | RS232 | RS232 | Wireless |

DIGITAL CLAMP METERS SPECIAL APPLICATION

| |  |  |  |  |  |  |
|------------------------|---|---|---|---|---|---|
| | CAT II CAT III CAT IV | | | | | |
| Model | M9912 | MS2015A | MS2600 | MS2601 | MS3300 | MS3302 |
| Page | 135 | 136 | 137 | 138 | 139 | 140 |
| Safety Rating | CAT II 1000V | CAT II 1000V | CAT III 600V | CAT III 600V | CAT II 1000V | CAT II 600V |
| Display Counts | 3200 | 6000 | 4000 | 6000 | | |
| Jaw Size | Φ55mm 2.2" | Φ40mm 1.6" | Φ12mm 0.5" | Φ12mm 0.5" | Φ55mm 2.2" | Φ28mm 1.1" |
| Auto Ranging | • | | • | • | | |
| Auto Power Off | | | • | • | | |
| True RMS | | • | | | • | |
| DC Voltage | 750V | 1000V | 1000V | 600V | | |
| AC Voltage | 750V | 750V | 700V | 600V | | |
| DC Current | 1000A | | | | 1000A | |
| AC Current | 1000A | 1000A | 200A | 200A | 1000A | 400A |
| Inrush Current | | | | | | |
| Resistance | 30MΩ | 60MΩ | 40MΩ | 60MΩ | | |
| Capacitance | | 100mF | 40μF | 60mF | | |
| Frequency | 30kHz | 10MHz | 100kHz | 60MHz | | |
| Duty Cycle | | • | • | | | |
| Type K Temperature | | | | | -20~400°C -4~750°F | |
| Diode | • | • | • | • | | |
| Continuity | • | • | • | • | | |
| Display Backlight | • | • | • | • | | |
| Work Light | • | • | | • | | |
| Data Hold | • | • | • | • | | |
| NCV | | • | | • | | |
| MAX/MIN | | • | | | | |
| Relative Measurement | | | • | | | |
| Bar Graph | | | | | | |
| Insulation Test | | | | | | |
| DC Current (From Plug) | | | | 1000μA | | |
| Low Pass Filter | | | | | | |
| Low Impedance | | | | • | | |
| Dual Display | | | | | | |
| Infrared Temperature | | | | | | |
| Interface | | | | | | |