

Multimeter Comparison Chart

All Meters (except 5115):
Continuity w/Beeper,
Display HOLD,
Auto Ranging, Manual Ranging*,
Auto Pwr Off*, Direct Fuse Access*



MODEL	5115	5231	5233	5212	5217	MTX 3290	MTX 3291	MTX 3292B MTX 3292B-BT	MTX 3293B MTX 3293B-BT	
TRMS - (True RMS)	-	•	•	•	•	•	•	•	•	
Counts	2000	6,000	6,000	4,000	6,000	6,000	60,000	100,000	100,000	
VOLTAGE MEASUREMENTS										
Voltage - MAX	600V AC/DC	1000V AC/DC	1000V AC/DC	600V AC/DC	750V AC/ 1000V DC	600V AC/DC/AC+DC	600V AC/DC/AC+DC	1000V AC/DC/AC+DC	1000V AC/DC/AC+DC	
Voltage - AC / DC / AC+DC	• / • / -	• / • / -	• / • / -	• / • / -	• / • / -	• / • / -	• / • / -	• / • / -	• / • / -	
Voltage - Bandwidth	-	1kHz	1kHz	1kHz	1kHz	20kHz	100kHz	100kHz	200kHz	
Milli-Volt (mV) Range	-	•	•	•	•	-	-	•	•	
V Low Z - Ghost Voltages (Z)	-	• (Z=250kΩ)	• (Z=250kΩ)	• (Z=500kΩ)	• (Z=500kΩ)	-	-	• (Z=300kΩ)	• (Z=300kΩ)	
NCV - Non Contact Voltage Detector	•	•	•	•	•	•	•	•	•	
CURRENT MEASUREMENTS										
Current - MAX	-	-	10A	10A (20A <30sec)	10A (20A <30sec)	10A (20A <30sec)	10A (20A <30sec)	10A (20A <30sec)	10A (20A <30sec)	
Current - AC / DC / AC+DC	-	• / • / -	• / • / -	• / • / -	• / • / -	• / • / -	• / • / -	• / • / -	• / • / -	
Milli-Amp (mA) / Micro-Amp (µA) Ranges	-	-	-	- / -	- / -	- / -	- / -	- / -	- / -	
Current Clamp Function / Current MAX	-	• / 600A	-	-	-	• / 6 kA	• / 6 kA	• / >999 kA	• / >999 kA	
Current Clamp Ratios	-	1mV/A	-	-	-	1000 ; 100 ; 10 ; 1mV/A	1000 ; 100 ; 10 ; 1mV/A	Custom Programmable (V or A)/A Ratios	Custom Programmable (V or A)/A Ratios	
OTHER MEASUREMENTS										
Resistance - MAX	20MΩ	60MΩ	60MΩ	40MΩ	60MΩ	60MΩ	60MΩ	100MΩ	100MΩ	
Continuity With Beeper - Threshold	<30Ω	<20Ω + 3Ω	<20Ω + 3Ω	<50Ω	<50Ω	<30Ω ± 5Ω	<30Ω ± 5Ω	~20Ω	~20Ω	
Frequency - Range	-	-	10Hz-3kHz	-	10Hz-1kHz	60Hz-200kHz	60Hz-600kHz	10Hz-5MHz	10Hz-5MHz	
Low Pass Filter (Frequency)	-	-	-	-	-	• (300Hz)	• (300Hz)	• (300Hz)	• (300Hz)	
Capacitance	-	-	1mF	100mF	100mF	60mF	60mF	10mF	10mF	
Diode test	0-1V	0-2.8V <0.9mA	0-2.8V <0.9mA	0-3V	0-3V	0-3V	0-3V	0-2.6V <1mA + (Zener/LED)	0-2.6V <1mA + (Zener/LED)	
Temperature - PT100 / PT1000 RTD	- / -	- / -	- / -	- / -	- / -	- / -	- / -	• / •	• / •	
Temperature - Type-J / Type-K TC	- / -	- / -	- / •	- / -	- / •	- / -	- / -	• / •	• / •	
Duty Cycle / Pulse Width / Pulse Count	- / - / -	- / - / -	• / - / -	- / - / -	• / - / -	- / - / -	• / • / -	• / • / •	• / • / •	
Δ REL - Relative Measurement	-	-	•	-	•	-	-	•	•	
dB - Decibels In Voltage (Vref)	-	-	-	-	-	-	-	•	•	
dBm - Decibels In Power (Rref)	-	-	-	-	-	-	-	•	•	
MAX / MIN / Peak+ / Peak -	• / - / - / -	- / - / - / -	• / • / - / -	- / - / - / -	• / • / - / -	- / - / - / -	• / • / - / -	• / • / • / •	• / • / • / •	
CF - Crest Factor	-	-	-	-	-	-	-	•	•	
Power - Resistive / VxA	- / -	- / -	- / -	- / -	- / -	- / -	• / -	• / •	• / •	
MATH Function	-	-	-	-	-	-	-	•	•	
OTHER FEATURES										
Recording - (# Of Records)	-	-	-	-	-	-	-	• (10,000)	• (30,000)	
Communication To PC - USB / Bluetooth	- / -	- / -	- / -	- / -	- / -	- / -	• / -	• / • (-BT version)	• / • (-BT version)	
Software For Data Analysis	-	-	-	-	-	-	-	• (SX-DMM)	• (SX-DMM)	
Color Graphical Display	-	-	-	-	-	-	-	•	•	
Backlight / Flashlight	• / •	• / -	• / -	• / •	• / •	-	-	• / -	• / -	
Auto Power Off Removable	-	•	•	•	•	-	-	•	•	
POWER										
Batteries / Power Supply	2 x CR2032	9V	9V	2 x AA	2 x AA	4 x AA or NiMH	4 x AA or NiMH	4 x AA or NiMH or Wall Charger Power Supply	4 x AA or NiMH or Wall Charger Power Supply	
Battery Life	-	>100hrs	>100hrs	500hrs	500hrs	AA: 200hrs NiMH: 140hrs	AA: 300hrs NiMH: 210hrs	AA: 100hrs NiMH: 80hrs	AA: 100hrs NiMH: 80hrs	
Low Battery Indication	-	•	•	•	•	•	•	•	•	
MECHANICAL / ENVIRONMENTAL										
Magnetic Hanger	-	w/MultiFix (#5000.44)	w/MultiFix (#5000.44)	•	•	w/MultiFix (#5000.44)	w/MultiFix (#5000.44)	w/MultiFix (#5000.44)	w/MultiFix (#5000.44)	
Protection Index	IP 40	IP 54	IP 54	IP 54	IP 54	IP 67	IP 67	IP 67	IP 67	
Waterproof	-	-	-	-	-	•	•	•	•	
Operating Temperature Range	32°F to 122°F	32°F to 122°F	32°F to 122°F	-4°F to 120°F	-4°F to 120°F	14°F to 131°F	14°F to 131°F	32°F to 104°F	32°F to 104°F	
WARRANTY / SAFETY										
Safety	600V CAT III	1000 V CAT III 600 V CAT IV	1000 V CAT III 600 V CAT IV	600 V CAT III	600 V CAT III	600 V CAT III 300 V CAT IV	600 V CAT III 300 V CAT IV	1000 V CAT III 600 V CAT IV	1000 V CAT III 600 V CAT IV	
Warranty	2 Years	2 Years	2 Years	2 Years	2 Years	2 Years	2 Years	3 Years	3 Years	
CATALOG #	2154.10	2125.64	2125.65	2154.07	2154.09	2154.01	2154.02	2154.03 / .05(-BT)	2154.04 / .06(-BT)	
MODEL	5115	5231	5233	5212	5217	MTX 3290	MTX 3291	MTX 3292 MTX 3292-BT	MTX 3293 MTX 3293-BT	