

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
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TRMS - (True RMS)	-	•	•	•	•	•	•	•	•
Counts	2000	6,000		4,000	6,000	6,000	60,000		100,000

VOLTAGE MEASUREMENTS

Voltage - MAX	600V AC/DC	1000V AC/DC	600V AC/DC	750V AC/1000V DC	600V AC/DC/AC+DC	1000V AC/DC/AC+DC			
Voltage - AC / DC / AC+DC	• / • / -	• / • / -		• / • / -		• / • / •			
Voltage - Bandwidth	-	1kHz		1kHz	20kHz	100kHz		200kHz	
Milli-Volt (mV) Range	-	•		•	-		•		
V Low Z - Ghost Voltages (Z)	-	• (Z=250kΩ)		• (Z=500kΩ)	-		• (Z=300kΩ)		
NCV - Non Contact Voltage Detector	•	•		•	-		-		

CURRENT MEASUREMENTS

Current - MAX	-	-	10A	10A (20A <30sec)		10A (20A <30sec)			
Current - AC / DC / AC+DC	-	• / • / -		• / • / -		• / • / •			
Milli-Amp (mA) / Micro-Amp (µA) Ranges	-	-	-	- / -	• / •	• / •			
Current Clamp Function / Current MAX	-	• / 600A	-	-	-	• / >999 kA			
Current Clamp Ratios	-	1mV/A	-	-	-	1000 ; 100 ; 10 ; 1mV/A	Custom Programmable (V or A)/A Ratios		

OTHER MEASUREMENTS

Resistance - MAX	20MΩ	60MΩ	40MΩ	60MΩ	60MΩ	100MΩ			
Continuity With Beeper - Threshold	<30Ω	<20Ω + 3Ω		<50Ω	<30Ω ± 5Ω	~20Ω			
Frequency - Range	-	10Hz-3kHz	-	10Hz-1kHz	10Hz-200kHz	10Hz-5MHz			
Low Pass Filter (Frequency)	-	-	-	-		• (300Hz)			
Capacitance	-	1mF		10mF	60mF	10mF			
Diode test	0-1V	0-2.8V <0.9mA		0-3V	0-3V	0-2.6V <1mA +(Zener/LED) 0-20V <11mA			
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)		
Software For Data Analysis	-	-		-	-		• (SX-DMM)		
Color Graphical Display	-	-		-	-				•
Backlight / Flashlight	• / •	• / -		• / •			• / -		
Auto Power Off Removable	-	•		•				•	

POWER

Batteries / Power Supply	2 x CR2032	9V		2 x AA	4 x AA or NiMH	4 x AA or NiMH or Wall Charger Power Supply			
Battery Life	-	>100hrs		500hrs	AA: 200hrs NiMH: 140hrs	AA: 300hrs NiMH: 210hrs	AA: 100hrs NiMH: 80hrs		
Low Battery Indication	-	•		•					•

MECHANICAL / ENVIRONMENTAL

Magnetic Hanger	-	w/MultiFix (#5000.44)		•	w/MultiFix (#5000.44)				
Protection Index	IP 40	IP 54		IP 54		IP 67			
Waterproof	-	-		-					•
Operating Temperature Range	32°F to 122°F	32°F to 122°F		-4°F to 120°F	14°F to 131°F		32°F to 104°F		

WARRANTY / SAFETY

Safety	600V CAT III	1000 V CAT III 600 V CAT IV		600 V CAT III	600 V CAT III 300 V CAT IV	1000 V CAT III 600 V CAT IV			
Warranty	2 Years	2 Years		2 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)
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