DIGITAL MULTIMETERS 3000 SERIES

MODELS MTX 3290 & 3291

A compact, rugged, comfortable to grip, waterproof (to IP67 standard) meter

MODELS MTX 3290 MTX 3291	SPECIFICATIONS		
DC, AC & AC+DC Voltages 60mV to 600V 60mV to 1000V Voltage DC Accuracy ±0.3% ±0.05% AC & AC+DC Bandwidth 20kHz 100kHz DC, AC & AC+DC Current 600µA to 10A / 20A (30s max) (MTX 3291) Current DC Accuracy ±0.08% Frequency 60Hz to 600kHz Resistance 600Ω to 60MΩ Audible Continuity 600Ω signal < 30Ω ±5Ω < 5V Diode Test 3V with 1mV resolution Capacitance 6nF to 60mF Temperature Pt100/1000 -328° to 1472°F (-200° to 800°C) Temperature K/J TC — OTHER FUNCTIONS Time/date-stamped MAX/MIN/AVG or PEAK ±, on all functions Relative Mode (ΔRel) Relative value + measured reference value on secondary display (MTX 3291) PWM Filter 4th-order 300Hz low-pass filter for measuring variable speed drives with asynchronous motors V-Output Clamp Function for Direct Reading Integration of the ratio: 1, 10, 100, 1000mV/A Secondary Functions or Measurements dBm and VA resistive power, +/- duty cycle, and pulse width (MTX 3291) SPEC Mode — GRAPH — Center Zero Selecta	MODELS	MTX 3290	MTX 3291
Voltage DC Accuracy ±0.3% ±0.05% AC & AC+DC Bandwidth 20kHz 100kHz DC, AC & AC+DC Current 600µA to 10A / 20A (30s max) (MTX 3291) Current DC Accuracy ±0.08% Frequency 60Hz to 600kHz Resistance 600Ω to 60MΩ Audible Continuity 600Ω signal < 30Ω ±5Ω < 5V Diode Test 3V with 1mV resolution Capacitance 6nF to 60mF Temperature Pt100/1000 -328° to 1472°F (-200° to 800°C) Temperature K/J TC — OTHER FUNCTIONS MIN/MAX/PEAK MIN/MAX/PEAK Time/date-stamped MAX/MIN/AVG or PEAK ±, on all functions Relative value + measured reference value on secondary display (MTX 3291) PWM Filter 4th-order 300Hz low-pass filter for measuring variable speed drives with asynchronous motors V-Output Clamp Function or Direct Reading Integration of the ratio: 1, 10, 100, 1000mV/A Secondary Functions or Measurements dBm and VA resistive power, +/- duty cycle, and pulse width (MTX 3291) SPEC Mode — GRAPH — Center Zero Selectable or automatic (MTX 3291) bargraph for Vpc and Apc Memory <t< th=""><th></th><th></th><th></th></t<>			
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Current DC Accuracy ±0.08% Frequency 60Hz to 600kHz Resistance 600Ω to 60MΩ Audible Continuity 600Ω signal < 30Ω ±5Ω < 5V Diode Test 3V with 1mV resolution Capacitance 6nF to 60mF Temperature Pt100/1000 -328° to 1472°F (-200° to 800°C) Temperature K/J TC – OTHER FUNCTIONS Time/date-stamped MAX/MIN/AVG or PEAK ±, on all functions Relative Mode (ΔRel) Relative value + measured reference value on secondary display (MTX 3291) PWM Filter 4th-order 300Hz low-pass filter for measuring variable speed drives with asynchronous motors V-Output Clamp Function for Direct Reading Integration of the ratio: 1, 10, 100, 1000mV/A Secondary Functions or Measurements dBm and VA resistive power, +/- duty cycle, and pulse width (MTX 3291) SPEC Mode – GRAPH – Center Zero Selectable or automatic (MTX 3291) bargraph for Vbc and Abc Memory – GENERAL Display LCD with backlighting (MTX 3291) and digits 14mm high; Dual-line 60,000 (MTX 3291) or 6000-count display USB optical connector & SX-DMM software (included) Power Source 4 x AA batteries or NiMH batteries (AC & AC+DC Bandwidth	20kHz	100kHz
Frequency 60Hz to 600kHz	DC, AC & AC+DC Current	600μA to 10A / 20A (30s max) (MTX 3291)	
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Capacitance Temperature Pt100/1000 Temperature K/J TC OTHER FUNCTIONS MIN/MAX/PEAK Time/date-stamped MAX/MIN/AVG or PEAK ±, on all functions Relative Mode (ΔRel) PWM Filter PWM Filter Ath-order 300Hz low-pass filter for measuring variable speed drives with asynchronous motors V-Output Clamp Function for Direct Reading Secondary Functions or Measurements SPEC Mode GRAPH Center Zero Selectable or automatic (MTX 3291) bargraph for Voc and Abc Memory GENERAL Display LCD with backlighting (MTX 3291) or 6000-count display USB optical connector & SX-DMM software (included) Power Source 4 x AA batteries or NiMH batteries (included) Environment Senature (0° to 40°C)	Audible Continuity	600Ω signal $< 30\Omega \pm 5\Omega < 5V$	
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V-Output Clamp Function for Direct Reading Secondary Functions or Measurements SPEC Mode GRAPH Center Zero GENERAL Display LCD with backlighting (MTX 3291) and digits 14mm high; Dual-line 60,000 (MTX 3291) or 6000-count display Communication Communication Power Source 4 x AA batteries or NiMH batteries (included) Environment Integration of the ratio: 1, 10, 100, 1000mV/A Bm and VA resistive power, +/- duty cycle, and pulse width (MTX 3291) CBB query	Relative Mode (∆Rel)		
for Direct Reading Secondary Functions or Measurements SPEC Mode GRAPH Center Zero GENERAL Display LCD with backlighting (MTX 3291) or 6000-count display Communication LCD with backlighting (MTX 3291) or 6000-count display Communication A X AA batteries or NiMH batteries (included) Environment Integration of the Fatio: 1, 10, 100, 1000m/A dBm and VA resistive power, +/- duty cycle, and pulse width (MTX 3291) Communication - Center Zero Selectable or automatic (MTX 3291) bargraph for Vbc and Abc Memory - GENERAL USB optical connector & SX-DMM software (included) Environment Storage: -4° to 158°F (-20° to 70°C) Operation: 32° to 104°F (0° to 40°C)	PWM Filter	4th-order 300Hz low-pass filter for measuring variable speed drives with asynchronous motors	
Measurements and pulse width (MTX 3291) SPEC Mode — GRAPH — Center Zero Selectable or automatic (MTX 3291) bargraph for Voc and Abc Memory — GENERAL USB optical digits 14mm high; Dual-line 60,000 (MTX 3291) or 6000-count display USB optical connector & SX-DMM software (included) Power Source 4 x AA batteries or NiMH batteries (included) Environment Storage: -4° to 158°F (-20° to 70°C) Operation: 32° to 104°F (0° to 40°C)		Integration of the ratio: 1, 10, 100, 1000mV/A	
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Center Zero Selectable or automatic (MTX 3291) bargraph for Voc and Abc Memory GENERAL Display LCD with backlighting (MTX 3291) and digits 14mm high; Dual-line 60,000 (MTX 3291) or 6000-count display USB optical connector & SX-DMM software (included) Power Source 4 x AA batteries or NiMH batteries (included) Environment Selectable or automatic (MTX 3291) bargraph for Voc and Abc	SPEC Mode		_
Memory GENERAL Display LCD with backlighting (MTX 3291) and digits 14mm high; Dual-line 60,000 (MTX 3291) or 6000-count display Communication USB optical connector & SX-DMM software (included) Power Source 4 x AA batteries or NiMH batteries (included) Environment Storage: -4° to 158°F (-20° to 70°C) Operation: 32° to 104°F (0° to 40°C)	GRAPH	-	
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Display LCD with backlighting (MTX 3291) and digits 14mm high; Dual-line 60,000 (MTX 3291) or 6000-count display Communication USB optical connector & SX-DMM software (included) Power Source 4 x AA batteries or NiMH batteries (included) Environment Storage: -4° to 158°F (-20° to 70°C) Operation: 32° to 104°F (0° to 40°C)	Memory		-
Dual-line 60,000 (MTX 3291) or 6000-count display USB optical connector & SX-DMM software (included) Power Source 4 x AA batteries or NiMH batteries (included) Environment Storage: -4° to 158°F (-20° to 70°C) Operation: 32° to 104°F (0° to 40°C)	GENERAL		
Communication - SX-DMM software (included) Power Source 4 x AA batteries or NiMH batteries (included) Environment Storage: -4° to 158°F (-20° to 70°C) Operation: 32° to 104°F (0° to 40°C)	Display		
Environment Storage: -4° to 158°F (-20° to 70°C) Operation: 32° to 104°F (0° to 40°C)	Communication	-	SX-DMM software
Operation: 32° to 104°F (0° to 40°C)	Power Source	4 x AA batteries or NiMH batteries (included)	
Dimensions / Weight 7.72 x 3.54 x 1.85" (196 x 90 x 47.1mm) / 20.1oz (570g)	Environment	Storage: -4° to 158°F (-20° to 70°C) Operation: 32° to 104°F (0° to 40°C)	
	Dimensions / Weight	7.72 x 3.54 x 1.85" (196 x 90 x 47.1mm) / 20.1oz (570g)	

Consult factory for NIST Calibration prices







MTX 3290

MTX 3291

















MTX 3290 only

FEATURES

- Easy-to-read 2.75 x 2.04" (70 x 52mm) backlit LCD screen
- · On screen connection indicator
- · Current: auto-ranging up to 10A
- · Secondary measurements in addition to the main measurement to facilitate analysis
- MIN/MAX and AVG data with relative time/datestamping and voltage and current peaks
- SX-DMM software for real-time processing of the data on a PC (MTX 3291)
- · Powered by 4 standard AA batteries or 4 NiMH batteries rechargeable available with optional external charging module

PRODUCT INCLUDES

Set of color-coded (red/black) safety leads, set of (2) color-coded (red/black) test probes, (4) 1.5V AA alkaline batteries (installed), multilingual operation instructions, quick start guide, and a USB drive with a user manual. Model MTX 3291 also includes a soft carrying case, USB cable, and USB drive with SX-DMM software.



CATALOG NO.	DESCRIPTION
2154.01	DMM Model MTX 3290 (ASYC IV, TRMS, 6000-cts, Digital LCD)
2154.02	DMM Model MTX 3291 (ASYC IV, TRMS, 60,000-cts, USB, Backlit, Digital LCD)



DIGITAL MULTIMETERS 3000 SERIES

FUNCTIONAL DISPLAYS

The TRMS measurements of AC voltages and currents are also accurate on non-linear signals

MTX 3292B & MTX 3293B COLOR MATRIX GRAPHICAL SCREENS



SETUP MENU

Configuration of measurements

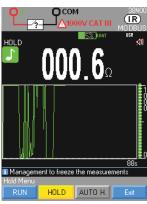


MEASUREMENT

Configuration of the measurement parameters



Storing of the measurements recording mode



HOLD

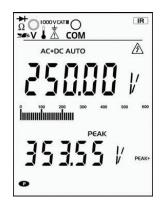
Management and hold of the display

MTX 3290 & MTX 3291 BACKLIT LCD SCREENS



MAX/MIN AVG

Displays maximum, minimum and average values



PEAK MODE

Example of screen showing Peak+ value



ΔREL MODE

Displays relative values with respect to referenced measured value