# **DIGITAL MULTIMETERS 3000 SERIES**

# MODELS MTX 3290 & 3291

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

# CDECIEICATIONS

MODELS   LECTRIC	<b>SPECIFICATIONS</b>		
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, 1000mW/A           Secondary Functions or Measurements         dBm and VA resistive power, +/- duty cycle, and pulse width (MTX 3291)           SPEC Mode         —           GRAPH         —           Center Zero         Selecta		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         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 or Direct Reading         Integration of the ratio: 1, 10, 100, 1000mW/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 Voc and Acc Memory           Enviplay			
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       Selectable or automatic (MTX 3291) bargraph for Voc and Abc Memory         GENERAL       LCD with backlighting (MTX 3291) and digits 14mm high; Dual-line 60,000 (MTX 3291) or 6000-count display         Communication       - </th <th>· ·</th> <th>60mV to 600V</th> <th></th>	· ·	60mV to 600V	
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       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 softwa	Voltage DC Accuracy	±0.3%	±0.05%
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       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 Voc and Apc         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)	AC & AC+DC Bandwidth	20kHz	100kHz
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       Impedate-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 Voc and Aoc         Memory       -         GENERAL       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       St	•	600μA to 10A / 20A (30s max) (MTX 3291)	
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 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       LCD with backlighting (MTX 3291) or 6000-count display         USB optical connector & SX-DMM software (included)         Communication       —       SX-DMM software (included)         Power Source       4 x AA batteries or NiMH batteries (included)         Power Source <th><b>Current DC Accuracy</b></th> <th colspan="2">±0.08%</th>	<b>Current DC Accuracy</b>	±0.08%	
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 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 Voc and Abc         Memory       –         GENERAL       LCD with backlighting (MTX 3291) and digits 14mm high; Dual-line 60,000 (MTX 3291) or 6000-count display         Communication       –       SX-DMM software (included)         Power Source       4 x AA batteries or NiMH batteries (included)         Power Source       4 x AA batteries or NiMH batteries (included)         Environment	Frequency	60Hz to 600kHz	
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       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 Vpc and Apc Memory         GENERAL       LCD with backlighting (MTX 3291) and digits 14mm high; Dual-line 60,000 (MTX 3291) or 6000-count display         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)	Resistance	600Ω to $60MΩ$	
Capacitance6nF to 60mFTemperature Pt100/1000-328° to 1472°F (-200° to 800°C)Temperature K/J TC—OTHER FUNCTIONSMIN/MAX/PEAKTime/date-stamped MAX/MIN/AVG or PEAK ±, on all functionsRelative Mode (ΔRel)Relative value + measured reference value on secondary display (MTX 3291)PWM Filter4th-order 300Hz low-pass filter for measuring variable speed drives with asynchronous motorsV-Output Clamp Function for Direct ReadingIntegration of the ratio: 1, 10, 100, 1000mV/ASecondary Functions or MeasurementsdBm and VA resistive power, +/- duty cycle, and pulse width (MTX 3291)SPEC Mode—GRAPH—Center ZeroSelectable or automatic (MTX 3291) bargraph for Vpc and ApcMemory—GENERALUSB optical connector & SX-DMM software (included)DisplayLCD with backlighting (MTX 3291) or 6000-count displayCommunication—CommunicationUSB optical connector & SX-DMM software (included)Power Source4 x AA batteries or NiMH batteries (included)EnvironmentStorage: -4° to 158°F (-20° to 70°C) Operation: 32° to 104°F (0° to 40°C)	<b>Audible Continuity</b>	$600\Omega$ signal $< 30\Omega \pm 5\Omega < 5V$	
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) 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 Secondary Functions or Measurements  SPEC Mode GRAPH Center Zero Selectable or automatic (MTX 3291) bargraph for Vpc and Apc 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 STADM SORVED  Time/date-stamped MAX/MIN/AVG or PEAK ±, on all functions A literature value and sull functions A literature value value and sull functions A literature value valu	Diode Test	3V with 1mV resolution	
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  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  Brec Mode  GRAPH  Center Zero  Selectable or automatic (MTX 3291) bargraph for Vpc and Apc Memory  GENERAL  Display  LCD with backlighting (MTX 3291) and digits 14mm high; Dual-line 60,000 (MTX 3291) or 6000-count display  Communication  LCD with backlighting (MTX 3291) or 6000-count display  SY-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)	Capacitance	6nF to 60mF	
OTHER FUNCTIONS         MIN/MAX/PEAK       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 Voc and Abc         Memory       —         GENERAL       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)	Temperature Pt100/1000	-328° to 1472°F (-200° to 800°C)	
MIN/MAX/PEAK       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 Voc and Abc         Memory       —         GENERAL       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)	Temperature K/J TC		-
Relative Mode (ΔRel)Relative value + measured reference value on secondary display (MTX 3291)PWM Filter4th-order 300Hz low-pass filter for measuring variable speed drives with asynchronous motorsV-Output Clamp Function for Direct ReadingIntegration of the ratio: 1, 10, 100, 1000mV/ASecondary Functions or MeasurementsdBm and VA resistive power, +/- duty cycle, and pulse width (MTX 3291)SPEC Mode—GRAPH—Center ZeroSelectable or automatic (MTX 3291) bargraph for Vpc and ApcMemory—GENERALLCD with backlighting (MTX 3291) and digits 14mm high; Dual-line 60,000 (MTX 3291) or 6000-count displayCommunication—USB optical connector & SX-DMM software (included)Power Source4 x AA batteries or NiMH batteries (included)EnvironmentStorage: -4° to 158°F (-20° to 70°C) Operation: 32° to 104°F (0° to 40°C)	OTHER FUNCTIONS		
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 Vpc and Apc Memory  GENERAL  Display  LCD with backlighting (MTX 3291) or 6000-count display  Communication  Power Source  4 x AA batteries or NiMH batteries (included)  Environment  On secondary display (MTX 3291)  Ath-order 300Hz low-pass filter for measuring variable system for weasuring variable speed drives with asynchronous motors  Ath-order 300Hz low-pass filter for measuring variable system for weasuring variable speed drives with asynchronous motors  Abhard Ada Power, +/- duty cycle, and pulse width (MTX 3291)  Control (MTX 3291) bargraph for Vpc and Apc  Memory  -  GENERAL  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)  Fower Source  4 x AA batteries or NiMH batteries (included)  Storage: -4° to 158°F (-20° to 70°C) Operation: 32° to 104°F (0° to 40°C)	MIN/MAX/PEAK	Time/date-stamped MAX/MIN/AVG or PEAK ±, on all functions	
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  Communication  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  Variable speed drives with asynchronous motors  Integration of the ratio: 1, 10, 100, 1000mV/A  Bm and VA resistive power, +/- duty cycle, and pulse width (MTX 3291)  Communication  -  USB optical connector & SX-DMM software (included)  Storage: -4° to 158°F (-20° to 70°C) Operation: 32° to 104°F (0° to 40°C)	Relative Mode (∆Rel)		
Secondary Functions or Measurements   Albert Storage: -4° to 158°F (-20° to 70°C)   Communication   Albert Storage: -4° to 158°F (-20° to 70°C)   Communication   CBM and VA resistive power, +/- duty cycle, and pulse width (MTX 3291)   Albert Storage: -4° to 158°F (-20° to 70°C)   Communication   CBM and VA resistive power, +/- duty cycle, and pulse width (MTX 3291)   Albert Storage: -4° to 158°F (-20° to 70°C)   Coperation: 32° to 104°F (0° to 40°C)   Communication   CBM and VA resistive power, +/- duty cycle, and very close, 100, 100, 100, 100, 100, 100, 100, 10	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         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)		Integration of the ratio: 1, 10, 100, 1000mV/A	
GRAPH 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  Storage: -4° to 158°F (-20° to 70°C) Operation: 32° to 104°F (0° to 40°C)	Secondary Functions or Measurements	dBm and VA resistive power, +/- duty cycle, and pulse width (MTX 3291)	
Center Zero Selectable or automatic (MTX 3291) bargraph for Vpc and Apc 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  Storage: -4° to 158°F (-20° to 70°C) Operation: 32° to 104°F (0° to 40°C)	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	-	
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)	Center Zero	Selectable or automatic (MTX 3291) bargraph for VDC and ADC	
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	LCD with backlighting (MTX 3291) and digits 14mm high; Dual-line 60,000 (MTX 3291) or 6000-count display	
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)	
	Environment	Storage: -4° to 158°F (-20° to 70°C) Operation: 32° to 104°F (0° to 40°C)	
	Dimensions / Weight		

Consult factory for NIST Calibration prices







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



#### MFM

Storing of the measurements recording mode



HOLD

Management and hold of the display

## MTX 3290 & MTX 3291 BACKLIT LCD SCREENS



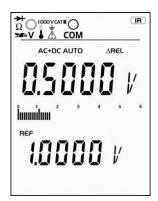
#### MAX/MIN AVG

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