

Model MX 57EX TRMS

An intrinsically safe multimeter for use in dangerous or explosive atmospheres



SPECIFICATIONS

MODEL	MX 57EX IECEx TRMS				
	500µA	5mA	50mA	500mA	
AC Current					
Resolution	10nA	100nA	1µA	10µA	
Bandwidth	DC to 5kHz	DC to 5kHz	DC to 5kHz	DC to 5kHz	
Accuracy	±0.75% of Reading ±30cts	±0.6% of Reading ±30cts	±0.6% of Reading ±30cts	±0.7% of Reading ±30cts	
Protection	600Vrms	600Vrms	600Vrms	600Vrms	
AC Voltage	500mV	5V	50V	500V*	600V*
Resolution	10µV	100µV	1mV	10mV	100mV
Bandwidth	40Hz to 1kHz	1 to 4kHz	4 to 10kHz	10 to 30kHz	30 to 50kHz
Accuracy	±0.3% of Reading ±30cts	±1% of Reading ±30cts	±2% of Reading ±30cts	±2% of Reading ±30cts	±3% of Reading ±30cts
Input Impedance	11MΩ	11MΩ	10MΩ	10MΩ	10MΩ
Protection	1100Vpk	1100Vpk	1100Vpk	1100Vpk	1100Vpk
DC Current	500µA	5mA	50mA	500mA	
Resolution	10nA	100nA	1µA	10µA	
Accuracy	±0.2% of Reading ±5cts	±0.2% of Reading ±2cts	±0.05% of Reading ±2cts	±0.2% of Reading ±2cts	
Protection	600Vrms	600Vrms	600Vrms	600Vrms	
DC Voltage	500mV	5V	50V	500V*	600V*
Resolution	10µV	100µV	1mV	10mV	100mV
Accuracy	±0.025% of Reading ±2cts	±0.025% of Reading ±2cts	±0.025% of Reading ±2cts	±0.025% of Reading ±2cts	±0.2% of Reading ±2cts
Input Impedance	10MΩ/1GΩ**	11MΩ	10MΩ	10MΩ	10MΩ
Protection	1100Vpk	1100Vpk	1100Vpk	1100Vpk	1100Vpk
Resistance	500Ω	5kΩ	50kΩ	500kΩ	5MΩ
Resolution	10mΩ	100mΩ	1Ω	10Ω	100Ω
Accuracy	±0.07% of Reading ±5cts	±0.07% of Reading ±2cts	±0.07% of Reading ±2cts	±0.07% of Reading ±2cts	±0.3% of Reading ±2cts
Max Open-Circuit Voltage	7V				
Protection	600V				
Continuity	10 to 20Ω				
Response Time	1ms				
Diode Test	0 to 2V				
Test Current	1mA ±20%				
Capacitance	50nF to 50mF				
Accuracy	±1% of Reading ±2cts				
Frequency	0.62Hz to 500kHz				
Accuracy	±0.03% of Reading ±2cts				
Temperature					
Range (User selectable in °F or °C)	-328° to 1472°F (-200° to 800°C)				
Sensor	PT100/PT1000				
Digital Display	50,000-count				
Analog Bargraph	34-segment				
Power Source	One 9V Alkaline battery (included)				
Safety Rating	NF EN 50014, EN 50014: 1992; NF EN 50020, EN 50020: 1994				
Agency Approval	Agency Approval: IECEx LC107.0010 X, LCIE 02 ATEX 6005 X, ExI 2 G D or ExI M2, Ex ib I, Ex ib IIC T5 or T4 or T3, Ex ibD 21 T				

*Operating voltages are limited to 60V peak value or currents to 500mA for intrinsically safe operation
 **User selectable



FEATURES

- TRMS measurements
- LCI 07: 0010X
- Safety rating: IEC 61010-1: 2001
- Agency Approval: IECEx LC107.0010 X, LCIE 02 ATEX 6005 X, Ex ib I, Ex ib IIC T5 or T4 or T3, Ex ibD 21 T
- Logic signal measurement and ADP input
- Min/Max/Avg functions
- Bargraph with zoom (x5) and center zero
- Rugged design - IP67 rating
- Protection by 500mA intrinsic safety fuse for the current range
- Includes test leads

CATALOG NO.	DESCRIPTION	PRICE	NIST CALIBRATION
2130.66	Digital Multimeter Model MX 57EX TRMS (IECEx LCIE 07.0010 X, LCIE 02 ATEX 6005 X, Intrinsically Safe, TRMS, 50,000-count, 0.025% Accuracy)	\$995.00	\$72.00