



Model MX 57EX TRMS

An intrinsically safe multimeter for use in dangerous or explosive atmospheres



► SPECIFICATIONS

MODEL	MX 57EX IECEx TRMS					
AC Current	500µA	5mA	50mA	500mA		
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	50MΩ
Resolution	10mΩ	100mΩ	1Ω	10Ω	100Ω	1kΩ
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	±1% 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	One 9V Alkaline battery (included)					
Power Source	34-segment					
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

• IECEx

• ATEX



► 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

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)