

### Model MX 57EX TRMS

An intrinsically safe multimeter for use in dangerous or explosive atmospheres



#### SPECIFICATIONS

MODEL	MX 57EX IEC EX TRMS					
<b>AC Current</b>	<b>500µA</b>	<b>5mA</b>	<b>50mA</b>	<b>500mA</b>		
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		
<b>AC Voltage</b>	<b>500mV</b>	<b>5V</b>	<b>50V</b>	<b>500V*</b>	<b>600V*</b>	
Resolution	10µV	100µV	1mV	10mV	100mV	
Bandwidth	40Hz to 1kHz	1kHz to 4kHz	4kHz to 10kHz	10kHz to 30kHz	30kHz 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	
<b>DC Current</b>	<b>500µA</b>	<b>5mA</b>	<b>50mA</b>	<b>500mA</b>		
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		
<b>DC Voltage</b>	<b>500mV</b>	<b>5V</b>	<b>50V</b>	<b>500V*</b>	<b>600V*</b>	
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	
<b>Resistance</b>	<b>500Ω</b>	<b>5kΩ</b>	<b>50kΩ</b>	<b>500kΩ</b>	<b>5MΩ</b>	<b>50MΩ</b>
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					
<b>Continuity</b>	<b>10 to 20Ω</b>					
Response Time	1ms					
<b>Diode Test</b>	<b>0 to 2V</b>					
Test Current	1mA ± 20%					
<b>Capacitance</b>	<b>50nF to 50mF</b>					
Accuracy	1% of Reading ± 2cts					
<b>Frequency</b>	<b>0.62Hz to 500kHz</b>					
Accuracy	0.03% of Reading ± 2cts					
<b>Temperature</b>						
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, ExII 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%)