Special product features

OTHER PRODUCTS FROM CHAUVIN ARNOUX® GROUP

Intrinsically Safe Digital Multimeter



Model MX 57EX TRMS

An intrinsically safe multimeter for use in dangerous or explosive atmospheres

SPECIFICATIONS

MODEL				MYE	57EV 16		MC				
AC Current					ECEX TRMS 50mA 500mA						
Resolution	500µA						500mA				
Bandwidth	10nA DC to 5kHz		100nA		1µA		10µA				
		-	DC to 5kHz		DC to 5kHz			DC to 5kHz			
Accuracy	±0.75% 0		±0.6% of			±0.6% of			±0.7% of		
Ductostica	Reading ±30cts		Reading ±30cts		Reading ±30cts		Reading ±30cts				
Protection AC Voltage	600Vrms 500mV		600Vrms		600Vrms		_	600Vrms 600V*			
Resolution	10µV			5V 100µV		50V 1mV		10mV		100mV	
Bandwidth		-					10 to 30kHz		1-		
	40Hz to 1kHz ±0.3% of										
Accuracy	$\pm 0.3\%$ 01 Reading ± 30 cts						±3% 01 Reading ±30cts				
Imput Impodonoo	11MΩ		$11M\Omega$		10N				1013	$10M\Omega$	
Imput Impedance Protection							10MΩ 1100Vpk				
DC Current	1100Vpk 500µA			оотрк	k 1100Vpk 500mA						
Resolution	10nA					i	50mA				
			100nA		1µA			10µA			
Accuracy	±0.2% of		±0.2% s Reading ±				.05% of ling ±2cts		D	±0.2% of Reading ±2cts	
Protection	Reading ±50 600Vrms	18		100 ± 2			niy ±2 0Vrms		n	600Vrms	
DC Voltage	500mV		5V	JUVIIII	-					600V*	
Resolution	10µV							10mV		100mV	
Accuracy	±0.025% of	· .	100µ V		of +0.025				of	±0.2% of	
Accuracy	Reading ±2cts		ading ± 2		-0.01	1 ± 2 cts	±0.025% of Reading ±2cts			$\pm 0.2\%$ 01 Reading ± 2 cts	
Imput Impodonoo	10MΩ/1GΩ**					,		<u> </u>	015	10MΩ	
Imput Impedance Protection	1100Vpk	_	11MΩ		10MΩ 1100Vpk		10MΩ 1100Vpk			1100Vpk	
Resistance	500 Ω		1100Vpł «Ω	K 50k		500k		5N		50M Ω	
Resolution	10mΩ		lmΩ	10 10		100 100		1 00		1kΩ	
Resolution											
Acouroov							-				
Accuracy	±0.07% of	±0.0	7% of	±0.07	7% of	±0.07	% of	±0.3	% of	f ±1% of	
Accuracy	±0.07% of Reading	±0.0 Rea	7% of ding	±0.07 Read	7% of ding	±0.07 Read	% of ing	±0.3 Rea	% of ding	f ±1% of Reading	
	±0.07% of	±0.0 Rea	7% of	±0.07	7% of ding	±0.07	% of ing	±0.3	% of ding	f ±1% of	
Max Open-Circuit	±0.07% of Reading	±0.0 Rea	7% of ding	±0.07 Read	7% of ding	±0.07 Read ±2c	% of ing	±0.3 Rea	% of ding	f ±1% of Reading	
Max Open-Circuit Voltage	±0.07% of Reading	±0.0 Rea	7% of ding	±0.07 Read	7% of ding cts 7	±0.07 Read ±2c	% of ing	±0.3 Rea	% of ding	f ±1% of Reading	
Max Open-Circuit Voltage Protection	±0.07% of Reading	±0.0 Rea	7% of ding	±0.07 Read	7% of ding cts 7 60	±0.07 ^o Read ±2c V	% of ing	±0.3 Rea	% of ding	f ±1% of Reading	
Max Open-Circuit Voltage Protection Continuity	±0.07% of Reading	±0.0 Rea	7% of ding	±0.07 Read	7% of ding cts 7' 60 10 to	±0.07 ⁶ Read ±2c V 0V 20 Ω	% of ing	±0.3 Rea	% of ding	f ±1% of Reading	
Max Open-Circuit Voltage Protection Continuity Response Time	±0.07% of Reading	±0.0 Rea	7% of ding	±0.07 Read	7% of ding cts 7 60 10 to 1n	±0.07 ^o Read ±2c V 0V 20 Ω ns	% of ing	±0.3 Rea	% of ding	f ±1% of Reading	
Max Open-Circuit Voltage Protection Continuity Response Time Diode Test	±0.07% of Reading	±0.0 Rea	7% of ding	±0.07 Read	7% of ding cts 7 60 10 to 1 n 0 to	±0.07 ^o Read ±2c V 0V 20 Ω ns 2V	% of ing	±0.3 Rea	% of ding	f ±1% of Reading	
Max Open-Circuit Voltage Protection Continuity Response Time Diode Test Test Current	±0.07% of Reading	±0.0 Rea	7% of ding	±0.07 Reac ±20	7% of ding cts 7 60 10 to 1 n 0 to 1 mA =	±0.07 ⁴ Read ±2c V 0V 20 Ω ns 2V ±20%	% of ing	±0.3 Rea	% of ding	f ±1% of Reading	
Max Open-Circuit Voltage Protection Continuity Response Time Diode Test Test Current Capacitance	±0.07% of Reading	±0.0 Rea	7% of ding	±0.07 Reac ±20	7% of ding cts 7 60 10 to 1n 0 to 1mA = 50nF to	±0.07 ⁴ Read ±2c V 0V 20 Ω ns 2V ±20% 50mF	% of ng ts	±0.3 Rea	% of ding	f ±1% of Reading	
Max Open-Circuit Voltage Protection Continuity Response Time Diode Test Test Current Capacitance Accuracy	±0.07% of Reading	±0.0 Rea	7% of ding	±0.07 Read ±20	7% of ding cts 7' 60 10 to 1mA = 50nF to 6 of Rea	±0.07 ⁴ Read ±2c V 20Ω bs 2V ±20% 50mF iding ±2	% of ing ts	±0.3 Rea	% of ding	f ±1% of Reading	
Max Open-Circuit Voltage Protection Continuity Response Time Diode Test Test Current Capacitance Accuracy Frequency	±0.07% of Reading	±0.0 Rea	7% of ding cts	±0.07 Read ±20	7% of ding cts 7 60 10 to 1mA = 50nF to 6 of Rea 62Hz to	±0.07 ⁴ Read ±2c V 20Ω hs ±20% 500F Iding ±2 500kH	% of ing ts cts	±0.3 Rea	% of ding	f ±1% of Reading	
Max Open-Circuit Voltage Protection Continuity Response Time Diode Test Test Current Capacitance Accuracy Frequency Accuracy	±0.07% of Reading	±0.0 Rea	7% of ding cts	±0.07 Read ±20	7% of ding cts 7 60 10 to 1mA = 50nF to 6 of Rea 62Hz to	±0.07 ⁴ Read ±2c V 20Ω bs 2V ±20% 50mF iding ±2	% of ing ts cts	±0.3 Rea	% of ding	f ±1% of Reading	
Max Open-Circuit Voltage Protection Continuity Response Time Diode Test Test Current Capacitance Accuracy Frequency Accuracy Temperature	±0.07% of Reading	±0.0 Rea	7% of ding cts	±0.07 Read ±20	7% of ding cts 7 60 10 to 1mA = 50nF to 6 of Rea 62Hz to	±0.07 ⁴ Read ±2c V 20Ω hs ±20% 500F Iding ±2 500kH	% of ing ts cts	±0.3 Rea	% of ding	f ±1% of Reading	
Max Open-Circuit Voltage Protection Continuity Response Time Diode Test Test Current Capacitance Accuracy Frequency Accuracy	±0.07% of Reading	±0.0 Rea	7% of ding 2cts	±0.07 Read ±20 ±1% 0.6 ±0.03	7% of ding cts 7 60 10 to 1mA = 50nF to 5 of Rea 62Hz to % of Rea	±0.07 ⁴ Read ±2c V 20Ω hs ±20% 500F Iding ±2 500kH	% of ing ts cts z :2cts	±0.3 Reat ±2	% of ding	f ±1% of Reading	
Max Open-Circuit Voltage Protection Continuity Response Time Diode Test Test Current Capacitance Accuracy Frequency Accuracy Temperature Range (User	±0.07% of Reading	±0.0 Rea	7% of ding 2cts	±0.07 Reac ±20 ±1% 0.0 ±0.03	7% of ding cts 7 60 10 to 1mA = 50nF to 50nF to 50nF to 6 of Rea 62Hz to 1% of Rea 62Hz to	±0.074 Read ±2c V 0V 20Ω hs 2V ±20% 0 50mF dding ±2 0 500kH eading ±	% of ing ts cts z :2cts	±0.3 Reat ±2	% of ding	f ±1% of Reading	
Max Open-Circuit Voltage Protection Continuity Response Time Diode Test Test Current Capacitance Accuracy Frequency Accuracy Temperature Range (User selectable in °F or °C)	±0.07% of Reading	±0.0 Rea	7% of ding 2cts	±0.07 Reac ±20 ±1% 0.0 ±0.03 8° to 1	7% of ding cts 7 60 10 to 1mA = 50nF to 50nF to 50nF to 6 of Rea 62Hz to 1% of Rea 62Hz to	±0.07 ⁴ Read ±2c V 20Ω 20Ω 500 500 H eading ±2 500 H eading ±2 10 H eading ±2 10 H eading ±2 H eading H eading H eading ±2 H Eading H Eading H Eading H Eading H Eading H Eading H Eading H Eading H Eading H Eading H Eading H Eading H Eading H Eading H Eadin H Eadin H Eadin H E H E H E H E H E H E H E H E H E H	% of ing ts cts z :2cts	±0.3 Reat ±2	% of ding	f ±1% of Reading	
Max Open-Circuit Voltage Protection Continuity Response Time Diode Test Test Current Capacitance Accuracy Frequency Accuracy Frequency Accuracy Temperature Range (User selectable in °F or °C) Sensor	±0.07% of Reading	±0.0 Rea	7% of ding 2cts	±0.07 Reac ±20 ±1% 0.0 ±0.03 8° to 1	7% of ding cts 7 60 10 to 1mA = 50nF tc 50nF tc 50nF tc 62Hz tc 1472°F PT100/I	±0.07' Read ±2c V 20Ω 20Ω 500KH 20% 500KH 20% 500KH 20% 500KH 20% 500KH 20% 20% 500KH 20% 20% 20% 20% 20% 20% 20% 20% 20% 20%	% of ing ts cts z :2cts	±0.3 Reat ±2	% of ding	f ±1% of Reading	
Max Open-Circuit Voltage Protection Continuity Response Time Diode Test Test Current Capacitance Accuracy Frequency Accuracy Frequency Accuracy Temperature Range (User selectable in °F or °C) Sensor Digital Display	±0.07% of Reading	±0.0 Rea	7% of ding 2cts -32	±0.07 Reac ±20 ±1% 0.0 ±0.03 8° to 1	7% of ding cts 7 60 10 to 10 to 1mA = 50nF tc of Rea 62Hz tc % of Rea 62Hz	±0.07 ⁴ Read ±2c V 20Ω 20Ω so 22 500KH eading ±2 500KH eading ±2 500KH eading ±2 500KH eading ±2 1000 -count	cts z 22cts 0 800°	±0.3 Reau ±2	% of ding	f ±1% of Reading	
Max Open-Circuit Voltage Protection Continuity Response Time Diode Test Test Current Capacitance Accuracy Frequency Accuracy Frequency Accuracy Temperature Range (User selectable in °For °C) Sensor Digital Display Analog Bargraph	±0.07% of Reading ±5cts	±0.0 Rea ±2	7% of ding 2cts -324 One	±0.07 Reac ±20 ±1% 0.0 8° to 1 F	7% of ding cts 7 60 10 to 1 n to 1 m A = 50nF t of Rea 62Hz to 9% of Rea 62Hz to 1472°F PT100/I 50,000 34-see kaline t	±0.07 Read ±20 V 20Ω rs 2V ±20% 0 500F ding ±2 0 500KH eading ± (-200° t 271000 -count gment pattery (i	cts z 22cts cts cts cts cts cts cts cts cts cts	±0.3 Rear Rear ±2	% of ding cts	f ±1% of Reading ±2cts	
Max Open-Circuit Voltage Protection Continuity Response Time Diode Test Test Current Capacitance Accuracy Frequency Accuracy Frequency Accuracy Temperature Range (User selectable in °F or °C) Sensor Digital Display Analog Bargraph Power Source	±0.07% of Reading ±5cts	±0.0 Rea ±2	7% of ding 2cts -32	±0.07 Reac ±20 ±1% 0.03 8° to 1 F 6 9V AIK	7% of ding cts 7 60 10 to 1 n to 1 m A = 50nF tc of Rea 62Hz tc 9% of Rea 62Hz tc 1472°F PT100/I 50,000 34-see kaline t : 1992;	±0.07 Read ±2c V 20Ω rs 2V ±20% 0 50mF dding ±2 0 500KH eading ± (-200° t 271000 -count gment attery (i NF EN 5	cts z 22cts cts z 22cts cts cts z 22cts cts cts z 22cts cts cts cts cts z 22cts cts cts cts cts cts cts cts cts cts	±0.3 Rear ±2 C()	% of ding cts	f ±1% of Reading ±2cts	

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

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	• IECEX • ATEX
x	
x	• IECEX • ATEX

► FEATURES

- TRMS measurements
- LCI 07: 0010X
- Safety rating: IEC 61010-1: 2001
- Agency Approval: IECEx LC107.0010 X, LCIE 02 ATEX Ex ib I, Ex ib IIC T5 or T4 or T3 **A**, Ex ibD 21 T **A**
- 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

GAIALOG 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



1.800.561.8187

0.4741.00 NO



