

INTRINSICALLY SAFE EXPLOSION-PROOF DIGITAL CLAMP METER MODEL KM 4003Ex

 THINK SAFETY
 THINK **KUSAM-MECO**

The Intrinsically Safe Explosion-proof Digital Clamp Meter-Clamp Meter KM 4003Ex, which can measure up to 1000A DC current and up to 3000A AC current with true effective value clamp. Other functions include AC and DC voltage, resistance, continuity, capacitance, frequency, duty cycle, temperature, and diode testing. The built-in flashlight and non-contact AC voltage detector provide more convenience. Bluetooth communication allows reading to be displayed and stored on mobile devices.

NEW


In addition, it is also suitable for outdoor construction, pipeline inspection, etc, and can be used in conjunction with various applications such as OA office systems, inspection positioning systems, data collection systems, etc, Especially suitable for harsh environments with hazardous explosions, such as petroleum, chemical, pharmaceutical, oil depots, tank areas, and other hazardous areas with flammable and explosive gases, facilitating timely communication between users and production and scheduling.

IP Grade: IP54

Ex-Marking: Ex ib IIC T4 Gb / Ex ib IIIC T130°C Db

Certificate No.: SYEx25.01128

Preliminary Data

AUTHENTICATION PARAMETERS	
Ex-Marking	Ex ib IIC T4 Gb/Ex ib IIIC T130°C Db
Certificate No.	SYEx25.01128
Protection Grade	IP54
ELECTRICAL SPECIFICATION :	
Clamp Size	About 48mm
Display	50000 bit counter backlit LCD
Flexible Coil	140 x 180mm
Continuity Check	Smell value 50Q; test current < 0.5mA
Diode Test	The typical value of the test current is 0.3mA; the open circuit voltage is less than 28VDC
Low Battery Level Indicator	Display '  '
Over Range Indication	Display 'OL'
Measurement Rate	2 readings per second, nominal value
Peak Value	Capture peak value > 1ms
Temperature Sensor	K type thermocouple
Input Impedance	10M Ω (DC voltage and AC voltage)
Communication Bandwidth	50Hz ~ 400Hz (AC current and AC voltage)
AC Response	True RMS (AC current and AC voltage)
Crest Factor	3.0 within the range of 40A and 400A, and 1.4 within the range of 1000A (50/60Hz and 5% to 100% of the range)
Operation Temperature	5°C ~ 40°C
Storage Temperature	-20°C ~ 60°C
Working Humidity	Up to 80% to 31 ° C, linearly decreasing to 50% at 40 ° C
Storage Humidity	< 80%
Working Altitude	2000 meters
Battery	One 9V battery
Automatic Shutdown	About 30 minutes later
Dimensions	Approx. 230 × 76 × 40mm
Weight	Approx. 315g

All Specifications are subject to change without prior notice.

ELECTRICAL SPECIFICATIONS

DC	
Range	Accuracy
1000ADC	$\pm(2.5\%+5)$

ACA RMs (50Hz~1000Hz)	
Range	Accuracy
3000AAC (Flexible coil)	$\pm(2.5\%+5)$
1000AAC	

All AC current ranges are from 5% of the specified range to 100% of the range

DC VOLTAGE	
Range	Accuracy
500.0mVDC	$\pm(0.1\%+4)$
5.000VDC	
50.00VDC	
500.0VDC	
1000VDC	$\pm(0.2\%+5)$

AC VOLTAGE RMs (50Hz~1000Hz)	
Range	Accuracy
400.0mVDC	$\pm(1.0\%+9)$
4.000VDC	
40.00VDC	
400.0VDC	
750.0VDC	

All AC voltage ranges are from 5% of the specified range to 100% of the range

Duty Cycle	
Range	Accuracy
5.0% ~ 95.0%	$\pm (1.0\%+2)$

Pulse broadband : 100 μ s ~ 100ms,
frequency : 10Hz ~ 100KHz.

RESISTANCE	
Range	Accuracy
400.0 Ω	$\pm(1.0\%+9)$
4.000K Ω	$\pm(1.0\%+4)$
40.00K Ω	
400.0K Ω	$\pm(2.0\%+9)$
4.000M Ω	
40.00M Ω	$\pm(3.0\%+9)$

CAPACITANCE	
Range	Accuracy
500.0nF	$\pm(3.5\%+40)$
5.000 μ F	$\pm(3.5\%+9)$
50.00 μ F	
500.0 μ F	$\pm(5.0\%+9)$
5.000mF	

FREQUENCY	
Range	Accuracy
50.00Hz	$\pm (0.3\%+2)$
500.0Hz	
5.000KHz	
50.00KHz	
500.0KHz	
50.00MHz	

Sensitivity: minimum 0.8V rms. @Duty cycle of 20% to 80% and < 100KHz; Minimum 5V rms at 20% to 80% duty cycle and >100KHz.

Temperature	
Range	Accuracy
-100°C ~ 1000°C	$\pm(1.0\%+2^{\circ}\text{C})$
-148°F ~ 1832°F	$\pm(1.0\%+3.6^{\circ}\text{F})$

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KUSAM-MECO®
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