

MAKLUMAT SPESIFIKASI ITEM

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MAKLUMAT SPESIFIKASI ITEM

No Pelawaan	: UiTM/B1/PER/SHR/B/0625/0038
Butiran Tawaran	: Cadangan Membekal, Menghantar, Memasang, Mengujilari Dan Menyelenggara Peralatan Pengajaran dan
Keterangan Item	: 0609010700027 : Electrical/Electricity/Electronic Wares - Multimeter/Multitester/Ammeter/Voltmeter
Nama Spesifikasi	: PKE 2025 (V2) 6½-Digit Dual-Display Digital Multimeter
Kuantiti	: 15.000

Butiran Keperluan

1 General

I Measures 11 input signals:

- DC voltage,
- DC current,
- True RMS AC voltage,
- AC Current,
- Two- and four-wire
- Resistance,
- Frequency,
- Continuity,
- Diode test,
- Temperature,
- Capacitance

II

- Signature 7-inch dual-measurement color display
- Fast reading rate of up to 1000 readings/s for speed-critical measurements
- 10,000 points logging memory for recording more data and perform analysis or better
- Standard USB and LAN for flexible PC connectivity
- USB flash drive support to copy / load configuration for repeated test setup

Calit

Tawaran Syarikat

Butiran Keperluan

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Tawaran Syarikat

<p>II</p> <ul style="list-style-type: none"> Includes digital multimeter (DMM) software for remote control and data logging 		
<p>III</p> <ul style="list-style-type: none"> Combination of hard and soft keys for more intuitive front-panel operation Standard connectivity to the PC Signature 7-inch dual-measurement color display USB flash drive adds convenience 	<input type="checkbox"/>	<input type="text"/>
<p>IV</p> <ul style="list-style-type: none"> Simplify Data Gathering and Analysis with digital multimeter (DMM) Software Record measurements and export results in a few clicks Remotely control your DMM via LAN Power supply: 100 V / 120 V (127 V) / 220 V (230 V) / 240 V \pm 10%, AC line frequency 45 Hz - 66 Hz, automatically sensed at power on Shock and vibration: Tested to IEC/EN 60086-2 	<input type="checkbox"/>	<input type="text"/>
<p>2 DC specifications Accuracy \pm (% of reading + % of range):</p>		
<p>I DC voltage</p> <ul style="list-style-type: none"> Range: 100.000 mV (min) Input impedance: 10 M ohm or > 10 G ohm Temperature coefficient: 0.0005 + 0.0005 	<input type="checkbox"/>	<input type="text"/>
<p>II</p> <ul style="list-style-type: none"> Range: 1000.00 V (max) Input impedance: 10 M ohm Temperature coefficient : 0.0005 + 0.0001 	<input type="checkbox"/>	<input type="text"/>
<p>3 Resistance</p>		
<p>I</p> <ul style="list-style-type: none"> Range: 100.000 ohm (min) Test current or burden voltage: 1 mA Temperature coefficient : 0.0006 + 0.0005 	<input type="checkbox"/>	<input type="text"/>
<p>II</p> <ul style="list-style-type: none"> Range: 100.000 M ohm (max) Test current or burden voltage: 500 nA 10 M? Temperature coefficient : 0.1500 + 0.0002 	<input type="checkbox"/>	<input type="text"/>
<p>4 DC current</p>		

Butiran Keperluan

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Tawaran Syarikat

I	<ul style="list-style-type: none">• Range: 100.0000 μA (min)• Test current or burden voltage: 0.011 V• Temperature coefficient : 0.0020 + 0.0030	<input type="checkbox"/>	
II	<ul style="list-style-type: none">• Range: 10.0000 A (max)• Test current or burden voltage: 0.5 V• Temperature coefficient : 0.0050 + 0.0010	<input type="checkbox"/>	
5	Continuity		
I	<ul style="list-style-type: none">• Range: 1000 ohm• Test current or burden voltage: 0.5 mA• Temperature coefficient : 0.0010 + 0.0020	<input type="checkbox"/>	
6	Diode test		
I	<ul style="list-style-type: none">• Range: 5.0000 V• Test current or burden voltage: 0.5 mA• Temperature coefficient : 0.0010 + 0.0020	<input type="checkbox"/>	
7	True RMS		
I	True RMS AC voltage	<input type="checkbox"/>	
	100 mV, 1 V, 10 V, 100 V, and 750 V ranges		
A)	<ul style="list-style-type: none">• Frequency : 3 Hz to 5 Hz• Temperature coefficient/$^{\circ}$C : 0.100 + 0.003	<input type="checkbox"/>	
B)	<ul style="list-style-type: none">• Frequency: 5 Hz to 10 Hz• Temperature coefficient / $^{\circ}$C : 0.035 + 0.003	<input type="checkbox"/>	
C)	<ul style="list-style-type: none">• Frequency: 10 Hz to 20 kHz• Temperature coefficient / $^{\circ}$C : 0.005 + 0.003	<input type="checkbox"/>	
D)	<ul style="list-style-type: none">• Frequency: 20 kHz to 50 kHz	<input type="checkbox"/>	

Butiran Keperluan

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Tawaran Syarikat

- Temperature coefficient / °C : 0.011 + 0.005

E)

- Frequency: 50 kHz to 100 kHz
- Temperature coefficient / °C : 0.060 + 0.008

F)

- Frequency: 100 kHz to 300 kHz
- Temperature coefficient / °C : 0.200 + 0.020

II True RMS AC current

100 µA, 1 mA, 10 mA, and 100 mA ranges

Burden voltage : 0.011, 0.11, 0.05, 0.5 V

A)

-
- Frequency: 3 Hz to 5 kHz
- Temperature coefficient / °C : 0.015 + 0.006
-

B)

- Frequency: 5 kHz to 10 kHz (typ)
- Temperature coefficient / °C : 0.030 + 0.006

8 Frequency accuracy ± (% of reading):

I Frequency

A)

- Range: 100.000 mV to 750.00 V (min)
- Frequency: 20 Hz - 300 kHz (min)
- Temperature coefficient / °C, 0 °C - 18 °C, 28 °C - 55 °C: 0.005

B)

- Range: 10.0000 mA to 3.0000 A (max)
- Frequency: 20 Hz - 10 kHz (max)
- Temperature coefficient / °C, 0 °C - 18 °C, 28 °C - 55 °C: 0.005

Butiran Keperluan**Calit****Tawaran Syarikat**9 Temperature and capacitance specifications Accuracy \pm (% of reading + % of range)

I Temperature

A)

- PT100 (DIN/IEC 751) : Probe accuracy + 0.05 °C
- Thermistor : Probe accuracy + 0.1 °C

II Capacitance

A)

- Range: 1.000 nF (min)
- Temperature coefficient / °C: 0.05 + 0.05

B)

- Range:100 μ F (min)
- Temperature coefficient / °C: 0.05 + 0.01

10 Supplied Accessories

I

- Power cord Per Unit
- Test leads Per Unit

11 Manual and Documentation

I Original copies of user and operational manual of the equipment must be provided

12 Installation , Testing and Commissioning

I

- Tenderers is required to install and commissioning the proposed equipment in the specified laboratory location in Faculty of Electrical Engineering, UiTM Shah Alam by their qualified trainers.
- Installation, testing and commissioning of the entire system should be completed within one month from the delivery date.

13 Training

Butiran Keperluan

I Tenderers are required to provide training for the use, maintenance and troubleshoot of the equipment to the Technical Staff & Lecturer of Faculty of Electrical Engineering, UiTM Shah Alam and all training-related costs are borne by the tenderers
14 After Sales Service

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Tawaran Syarikat

I
• Tenderers must have local service for repair services and provide on call services when required by UiTM.
• Tenderers must provide details of the warranty (warranty 3 years)