



SEALEY TM103 Auto Ranging Digital Multimeter Instruction Manual

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SEALEY TM103 Auto Ranging Digital Multimeter Instruction Manual



**FUNCTION PROFESSIONAL AUTO-RANGING
DIGITAL MULTIMETER
MODEL NO: TM103**

Thank you for purchasing a Sealey product. Manufactured to a high standard, this product will, if used according to these instructions, and properly maintained, give you years of trouble free performance.

IMPORTANT: PLEASE READ THESE INSTRUCTIONS CAREFULLY. NOTE THE SAFE OPERATIONAL REQUIREMENTS, WARNINGS & CAUTIONS. USE

THE PRODUCT CORRECTLY AND WITH CARE FOR THE PURPOSE FOR WHICH IT IS INTENDED. FAILURE TO DO SO MAY CAUSE DAMAGE AND/OR

PERSONAL INJURY AND WILL INVALIDATE THE WARRANTY. KEEP THESE INSTRUCTIONS SAFE FOR FUTURE USE.



Refer to
instructions



Electrical shock
hazard

SAFETY

PERSONAL PRECAUTIONS

- When using this multimeter, please observe all normal safety rules concerning: Protection against the dangers of electrical current. Protection of the meter against misuse.
- Full compliance with safety standards can only be guaranteed if used with the test leads. If necessary, they must be replaced with genuine Sealey leads with the same electrical ratings. Failure to do so will invalidate the warranty.

⚠ **DO NOT** use leads if damaged or if the wires are bared in any way.

GENERAL SAFETY INSTRUCTIONS

- Familiarise yourself with the application and limitations of the multimeter as well as the potential

IF IN ANY DOUBT CONSULT A QUALIFIED ELECTRICIAN.

• WARNING! USE EXTREME CAUTION WHEN WORKING WITH HIGH

- When the meter is connected to a circuit, do not touch unused meter
- When the magnitude of the value to be measured is unknown, set the range selector to the highest value
- Before commencing testing, follow instructions below and select the correct input sockets, function and range on the
- Before rotating the rotary switch to change functions, disconnect the test leads from the circuit under
- Take care when working with voltages above 35V DC or 25V AC. These voltages are considered a shock hazard.
- Keep fingers behind the probe barriers whilst

û **DO NOT** test voltages above 600V – the circuitry of the multimeter may be destroyed.

- **WARNING!** NEVER connect the multimeter to a voltage source / live circuit when the rotary switch is set to any other function apart from Voltage testing.
- **WARNING!** NEVER perform resistance, transistor, diode or continuity measurements on live
- ALWAYS discharge filter capacitors in power supplies and disconnect the power when making resistance or diode
- **WARNING!** Voltage checks on electrical outlets can be difficult and misleading because of the uncertainty of connection to therecessed electrical contacts. Other means should be used to ensure that the terminals are not “live”.

û **DO NOT** use the multimeter in a potentially explosive atmosphere.

û **DO NOT** operate the meter unless the back cover and the battery and fuse doors are in place and fastened securely.

- If any abnormal readings are observed, the multimeter must be checked out by an authorised
- When not in use, store the multimeter carefully in a safe, dry, childproof location out of direct Storage temperature range is -20°C to 60°C.
- ALWAYS turn off the power and disconnect the test leads before opening the doors to replace the fuse or
- The user shall ensure that test probes are correctly selected in order to prevent Probes shall be selected to ensure that adequate barriers guard against inadvertent hand contact with live conductors under test and that probes have minimal exposed probe tips. Where there is a risk of the probe tip short circuiting with other live conductors under test, it is recommended that the exposed tip length shall not exceed 4mm.

NOTE: The warnings, cautions and instructions referred to in this manual cannot cover all possible conditions and situations that may occur. It must be understood that common sense and caution are factors which cannot be built into this product, but must be applied by the operator.

SAFETY SYMBOLS

	This symbol adjacent to another symbol, terminal or operating device indicates that the operator must refer to an explanation in the Operating Instructions to avoid personal injury or damage to the meter.
WARNING	This WARNING symbol indicates a potentially hazardous situation, which if not avoided, could result in death or serious injury.
CAUTION	This CAUTION symbol indicates a potentially hazardous situation, which if not avoided, may result damage to the product.
	This symbol, adjacent to one or more terminals identifies them as being associated with ranges that may, in normal use, be subjected to particularly hazardous voltages. For maximum safety, the meter and its test leads should not be handled when these terminals are energized.
	This symbol indicates that a device is protected throughout by double insulation or reinforced insulation.

WARNING! NEVER apply voltage or current to the meter that exceeds the specified maximum as shown below

INPUT LIMITS	
Function	Maximum Input
V DC or V AC	600V DC/AC
mA DC/AC	400mA DC/AC
A DC/AC	10A DC/AC
Frequency, Resistance, Capacitance, Duty cycle, Diode test, Continuity	250V DC/AC
Temperature	250V DC/AC

- **WARNING!** USE EXTREME CAUTION when working with high

BATTERY INSTALLATION

- **WARNING!** To avoid electric shock, disconnect the test leads from any source of voltage before removing the battery cover.
Disconnect the test leads from the meter.
Open the battery cover by loosening the two cover screws using a Phillips head screwdriver. Insert the battery into battery holder, observing the correct polarity.
Replace the battery cover. Secure with the screws. To remove battery reverse order of above.
- **WARNING!** To avoid electric shock, do not operate the meter until the battery cover is in place and fastened securely.

NOTE: If your meter does not work properly, check the fuses and battery to make sure that they are still good and that they are properly inserted

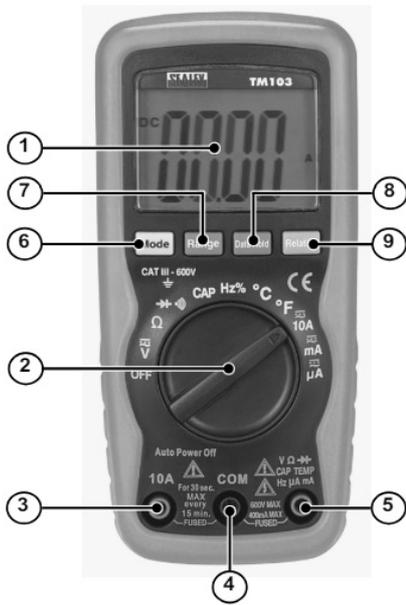


INTRODUCTION

High precision auto-ranging multimeter. Conforms to EN 61010-1 CATIII 600V safety requirements for electrical equipment for measurement, control and laboratory use. Features temperature measurement capability, max./data-hold, and auto-power-off function. Double moulded housing with soft grip case and large display for ease of use. Practical probe and lead storage and integral upright stand for use on the workbench. Supplied in zipped pouch with carry strap

OVERVIEW	
1	4000 Count Liquid Crystal Display With Symbolic Signs
2	Function Switch
3	10A (Positive) Input Jack For 10A DC or AC Measurements
4	Com (Negative) Input Jack
5	Positive Input Jack
6	Mode Push Button
7	Range Push Button

8	Data Hold Push Button
9	Relative Push Button
SYMBOLS AND ANNUNCIATORS	
•)))	Continuity
	Diode Test
M	Micro (amps)
M	Milli (volts, amps)
K	Kilo (ohms)
Ω	Ohms
VDC	Volts Direct Current
VAC	Volts Alternating Current
ADC	Amps Direct Current
BAT	Low Battery



SPECIFICATION

FUNCTION	RANGE	RESOLUTION	ACCURACY
DC Voltage: (Auto Ranging) Input Impedance: 7.8MΩ Maximum Input: 600V dc or 600V ac rms.	400.0mV	0.1mV	±0.5% reading ± 2 digits
	4.000V	1mV	±1.2% reading ± 2 digits
	40.00V	10mV	
	400.0V	100mV	
	600V	1V	±1.5% reading ± 2 digits

FUNCTION	RANGE	RESOLUTION	ACCURACY
AC Voltage: (Auto-ranging except 400mV) Input Impedance: 7.8MΩ Frequency Range: 50 to 400Hz Maximum Input: 600V dc or 600V ac rms	400.0mV	0.1mV	±1.5% reading ± 15 digits
	4.000V	1mV	±1.2% reading ± 3 digits
	40.00V	10mV	±1.5% reading ± 3 digits
	400.0V	100mV	
	600V	1V	±2.0% reading ± 4 digits

FUNCTION	RANGE	RESOLUTION	ACCURACY
DC Current:(Auto-ranging for uA/mA) Overload Protection:0.5A/250V and 10A/250V Fuse Maximum Input:400mA dc or 400mA ac rms on uA/mA ranges, 10A dc or ac rms on 10A range	400.0μA	0.1μA	±1.0% reading±3 digits
	4000μA	1μA	±1.5% reading±3 digits
	40.00mA	10μA	
	400.0mA	100μA	
	10A	10mA	±2.5% reading±5 digits

FUNCTION	RANGE	RESOLUTION	ACCURACY
AC Current:(Auto-ranging for uA/mA) Overload Protection:0.5A/250V and 10A/250V Fuse Frequency Range: 50 to 400Hz Maximum Input: 400mA dc or 400mA ac rms on uA/mA ranges, 10A dc or ac rms on 10A range.	400.0μA	0.1μA	±1.5% reading±5 digits
	4000μA	1μA	±1.8% reading±5 digits
	40.00mA	10μA	
	400.0mA	100μA	
	10A	10mA	±3.0% reading± 7 digits

FUNCTION	RANGE	RESOLUTION	ACCURACY
Resistance (Auto-Ranging) Input Protection: 250V dc or 250V ac rms	400.0Ω	0.1Ω	±1.2% reading± 4 digits
	4.000KΩ	1Ω	±1.0% reading± 2 digits
	40.00KΩ	10Ω	±1.2% reading± 2 digits
	400.0KΩ	100Ω	
	4.000MΩ	1KΩ	
	40.00MΩ	10KΩ	±2.0% reading± 3 digits

FUNCTION	RANGE	RESOLUTION	ACCURACY
Capacitance (Auto-Ranging) Input Protection: 250V dc or 250V ac rms	4.000nF	1pF	±5.0% reading± 5 digits
	40.00nF	10pF	±5.0% reading± 7 digits
	400.0nF	0.1nF	±3.0% reading± 5 digits
	4.000μF	1nF	
	40.00μF	10nF	±5.0% reading± 5 digits
	100.0μF	0.1μF	

FUNCTION	RANGE	RESOLUTION	ACCURACY
Frequency (Auto-ranging) Sensitivity: >0.5V RMS while ≤1MHz Sensitivity:> 3V RMS while>1MHz Overload protection: 250V dc or ac rms	9.999Hz	0.001Hz	±1.5% reading± 5 digits
	99.99Hz	0.01Hz	
	999.9Hz	0.1Hz	±1.2% reading± 3 digits
	9.999KHz	1Hz	
	99.99KHz	10Hz	
	999.9KHz	100Hz	±1.5% reading± 4 digits
	9.999MHz	1KHz	

FUNCTION	RANGE	RESOLUTION	ACCURACY
Duty Cycle Pulse width:>100us, <100ms Frequency width:5Hz-150Hz Sensitivity:>0.5V RMS Overload protection:250V dc or ac rms	0.1%~99.9%	0.1%	±1.2% reading± 2 digits

FUNCTION	RANGE	RESOLUTION	ACCURACY
Temperature Sensor: Type K Thermocouple Overload protection: 250V dc or ac rms	-20°C~+760°C -4°F~+1400°F	1°C 1°F	±3% reading ±5°C/9°F

FUNCTION	TEST CURRENT	RESOLUTION	ACCURACY
Diode Test Open circuit voltage: 1.5V dc typical Overload protection: 250V dc or ac rms	0.3mA typical	1mV	±10%reading±5 digits

AC Voltage (Accuracy):	400mV (±1.5%), 4V (±1.2%), 40V, 400V (±1.5%), 600V (±2%)
DC Voltage (Accuracy):	0-400mV (±0.5%), 4V, 40V, 400V (±1.2%), 600V (±1.5%)
AC Current (Accuracy):	400µA (±1.5%), 4000µA, 40mA, 400mA (±1.8%), 10A (±3%)
DC Current (Accuracy):	400µA (±1%), 4000µA, 40mA, 400mA (±1.5%), 10A (±2.5%)
Resistance (Accuracy):	0-400Ω (±1.2%), 4kΩ (±1%), 40kΩ, 400kΩ, 4MΩ (±1.2%), 40MΩ (±2%)
Capacitance (Accuracy):	4nF, 40nF (±5%), 400nF, 4µF, 40µF (±3%), 100µF (±5%)
Temperature (Accuracy):	-20°C to 760°C (±3%), -4 to 1400°F (±5%)
Frequency (Accuracy):	9.999Hz to 9.999MHz
Duty Cycle:	0.1%-99.9% (±1.2%)
Continuity Audible	Yes
Diode Test:	Yes
Transistor Test:	No
Hi-Impact Rubber Case:	Yes
Digits x Height:	2.1 x 24.5mm
Low Battery Indicator:	Yes
Battery (Supplied):	1 x 9V
Information:	Data-Hold & Auto-Power-Off
Size (L x W x D):	150 x 70 x 48mm
Weight:	255g
Conformity:	EN 61010-1

OPERATION

- **WARNING!** Risk of electrocution. High-voltage circuits, both AC and DC, are very dangerous and should be measured with great care. ALWAYS turn the function switch to the “OFF” position when the meter is not in use.

If “OL” appears in the display during a measurement, the value exceeds the range you have selected. Change to a higher range. **NOTE:** On some low AC and DC voltage ranges, with the test leads not connected to a device, the display may show a random reading. This is normal and is caused by the high-input sensitivity. The reading will stabilise and give a proper measurement when connected to a circuit.

MODE BUTTON

- To select Diode / Continuity, DC / AC Hz / %Duty.

RANGE BUTTON

When the meter is first turned on, it automatically goes into Auto Ranging. This automatically selects the best range for the measurements being made and is generally the best mode for most measurements. For measurement situations requiring that a range be manually selected, perform the following:

- Press the RANGE The “AUTO” display indicator will turn off.
- Press the RANGE button to step through the available ranges until you select the range you
- Press and hold the RANGE button for 2 seconds to exit the Manual Ranging mode and return to Auto

DATA HOLD BUTTON

The Data Hold function allows the meter to “freeze” a measurement for later reference.

- Press the DATA HOLD button to “freeze” the reading on the The indicator “HOLD” will be appear in the display.
- Press the DATA HOLD button to return to normal

RELATIVE BUTTON

The relative measurement feature allows you to make measurements relative to a stored reference value. A reference voltage, current,etc. can be stored and measurements made in comparison to that value. The displayed value is the difference between the reference value and the measured value.

- Perform any measurement as described in the operating
- Press the RELATIVE button to store the reading in the display and the “REL” indicator will appear on the
- The display will now indicate the difference between the stored value and the measured
- Press the RELATIVE button to return to normal

DC VOLTAGE MEASUREMENTS

CAUTION: DO NOT measure DC voltages if a motor on the circuit is being switched ON or OFF. Large voltage surges may occur that can damage the meter.

- Set the function switch to the V AC / DC position, press the Mode button to select
- Insert the black test lead banana plug into the negative (COM) Insert the red test lead banana plug into the positive (V) jack.
- Touch the black test probe tip to the negative side of the Touch the red test probe tip to the positive side of the circuit.
- Read the voltage in the display. AutoRanging will select the correct range, or manually select the desired range (see 4.2) to obtain a higher resolution The display will indicate the proper decimal point and value. If the polarity is reversed, the display will show (-) minus before the value.

AC VOLTAGE MEASUREMENTS

- **WARNING!** Risk of Electrocution. The probe tips may not be long enough to contact the live parts inside some 240V outlets for appliances because the contacts are recessed deep in the outlets.

As a result, the reading may show 0 volts when the outlet actually has voltage on it. Make sure the probe tips are touching the metal contacts inside the outlet before assuming that no voltage is present.

CAUTION: DO NOT measure AC voltages if a motor on the circuit is being switched ON or OFF. Large voltage surges may occur that can damage the meter.

- Set the function switch to the V AC / DC press the Mode button to select AC.
- Insert the black test lead banana plug into the negative (COM) Insert red test lead banana plug into the positive (V) jack.
- Touch the black test probe tip to the negative side of the Touch the red test probe tip to the positive side of the circuit.
- Read the voltage in the display. AutoRanging will select the correct range, or manually select the desired range (see 4.2) to obtain a higher resolution The display will indicate the proper decimal point and value. If the polarity is reversed, the display will show (-) minus before the value.

DC CURRENT MEASUREMENTS

CAUTION: DO NOT make current measurements on the 10A scale for longer than 30 seconds. Exceeding 30 seconds may cause damage to the meter and/or the test leads.

- Insert the black test lead banana plug into the negative (COM)
- For current measurements up to 4000 μ A DC, set the function switch to the μ A range and insert the red test lead banana plug into the (μ A)
- For current measurements up to 400mA DC, set the function switch to the mA range and insert the red test lead banana plug into the (mA)
- For current measurements up to 10A DC, set the function switch to the 10A range and insert the red test lead banana plug into the (10A) jack.
- Press the Mode button until DC shows in the
- Remove power from the circuit under test, then open up the circuit at the point where you wish to measure
- Connect test leads in series with the circuit under
- Apply power to the
- Read the current in the display. For mA DC measurements, reset the function switch to successively lower mA DC positions to obtain a higher resolution reading. The display will indicate the proper decimal point and value.

AC CURRENT MEASUREMENTS

- **WARNING!** To avoid electric shock, do not measure AC current on any circuit whose voltage exceeds 250V

CAUTION: DO NOT make current measurements on the 10A scale for longer than 30 seconds. Exceeding 30 seconds may cause damage to the meter and/or the test leads.

- Insert the black test lead banana plug into the negative (COM)
- For current measurements up to 4000 μ A AC, set the function switch to the μ A range and insert the red test lead banana plug into the (μ A) jack.
- For current measurements up to 400mA AC, set the function switch to the mA range and insert the red test lead banana plug into the (mA) jack.
- For current measurements up to 10A AC, set the function switch to the 10A range and insert the red test lead banana plug into the (10A) jack.
- Press the Mode button until AC shows in the
- Remove power from the circuit under test, then open up the circuit at the point where you wish to measure
- Connect test leads in series with the circuit under
- Apply power to the
- Read the current in the display. For mA DC measurements, reset the function switch to successively lower mA DC positions to obtain a higher resolution reading. The display will indicate the proper decimal point and value.

RESISTANCE MEASUREMENTS

- **WARNING!** To avoid electric shock, disconnect power to the unit under test and discharge all capacitors before taking any resistance measurements. Remove the batteries and unplug the line cords.
 - Set the function switch to the Ω
 - Insert the black test lead banana plug into the negative (COM) Insert the red test lead banana plug into the positive Ω jack.
 - Touch the test probe tips across the circuit or component under It is best to disconnect one side of the component under test so the rest of the circuit will not interfere with the resistance reading.
 - Read the resistance in the display The display will indicate the proper decimal point and

CONTINUITY CHECK

- **WARNING!** To avoid electric shock, never measure continuity on circuits or wires that have voltage on
 - Set the function switch to the /))) position.
 - Insert the black lead banana plug into the negative (COM) Insert the red test lead banana plug into the positive (Ω) jack.
 - Press the Mode button until the))) symbol appears in the display.
 - Touch the test probe tips to the circuit or wire you wish to
 - Touch the test probe tips to the circuit or wire you wish to
 - If the resistance is less than approximately 30 Ω , the audible signal will sound and the display will show the reading. If the circuit is open, the display will indicate "OL".

DIODE TEST

- **WARNING!** To avoid electric shock, do not test any diode that has voltage on
 - Set the function switch to
 - Press the Mode button until the symbol appears in the
 - Insert the black test lead banana plug into the negative (-) jack (COM) and the red test lead banana plug into the positive (+) jack (Ω).

- Touch the test probe tips to the diode or semiconductor junction you wish to Note the meter reading.
- Reverse the probe polarity by switching probe Note this reading.
- The diode or junction can be evaluated as follows:
 1. If one reading shows a value and the other reading shows “OL”, the diode is
 2. If both readings show “OL”, the device is
 3. If both readings are very small or 0, the device is

NOTE: The value indicated in the display during the diode check is the forward voltage.

FREQUENCY MEASUREMENT

- Set the function switch to the FREQ “Hz”
- Insert the black test lead banana plug into the negative (-) jack (COM) and the red test lead banana plug into the positive (+) jack (F).
- Touch the test probe tips to the circuit under
- Read the frequency in the The digital reading will indicate the proper decimal point, symbols (Hz, kHz) and value.

CAPACITANCE MEASUREMENTS

- **WARNING!** To avoid electric shock, disconnect power to the unit under test and discharge all capacitors before taking any capacitance measurements. Remove the batteries and unplug the line cords.
 - Set the function switch to the CAP (“nF” and a small value will appear in the display).
 - Insert the black test lead banana plug into the negative (-) jack (COM) and the red test lead banana plug into the positive (+) jack (CAP).
 - Touch the test leads to the capacitor to be The display will indicate the proper decimal point, value and symbol.

TEMPERATURE MEASUREMENTS

- **WARNING!** To avoid electric shock, disconnect any test probes from any source of voltage before making a temperature
 - If you wish to measure temperature in °F, set the function switch to the °F range. If you wish to measure temperature in °C, set the function switch to the °C range.
 - Insert the type K thermocouple into the thermocouple adaptor ensuring thermocouple “+” positive is matched with the “+” mark on the adaptor. Insert the adaptor into the meter ensuring the “-” negative pin is in the negative COM jack and the “+” pin is in the positive Temp jack.
 - Touch the Temperature Probe head to the part whose temperature you wish to measure. Keep the probe touching the part under test until the reading stabilizes (about 30 seconds).
 - Read the temperature in the The digital reading will indicate the proper decimal point and value.
- **WARNING!** To avoid electric shock, be sure the thermocouple has been removed before changing to another measurement

REPLACING THE BATTERY

- **WARNING!** To avoid electric shock, disconnect the test leads from any source of voltage before removing the battery
 - When the battery become exhausted or drops below the operating voltage, “BAT” will appear in the LCD display. The battery should be
 - Follow instructions for installing the See the Battery Installation section of this manual (1.4) Dispose of the old battery properly.
 - **WARNING!** To avoid electric shock, do not operate your meter until the battery cover is in place and fastened

REPLACING THE FUSES

- **WARNING!** To avoid electric shock, disconnect the test leads from any source of voltage before removing the fuse
- **WARNING!** Before attempting to open the case, ensure that the test leads have been disconnected from the multimeter and that it is switched off to avoid electric shock hazard.
 - Disconnect the test leads from the meter and any item under
 - Open the fuse cover by loosening the screw on the cover using a Phillips head
 - Remove the old fuse from its holder by gently pulling it
 - Install the new fuse into the
 - Always use a fuse of the proper size and value (0.5A/250V fast blow for the 400mA range, 10A/250V fast blow for the 10A range).
 - Replace the fuse cover back in Insert the screw and tighten it securely.
 - **WARNING!** To avoid electric shock, do not operate your meter until the fuse cover is in place and fastened
 - Clean the multimeter’s casing using a slightly dampened cloth and mild detergent – do not use any abrasives or
 - Clean the inside of each terminal using a swab soaked in isopropyl alcohol, use a new swab to apply a light coat of machine oil to each terminal.
 - If the multimeter is to be stored for a long period of time, remove the battery first to avoid any



ENVIRONMENT PROTECTION

Recycle unwanted materials instead of disposing of them as waste. All tools, accessories and packaging should be sorted, taken to a recycling centre and disposed of in a manner which is compatible with the environment. When the product becomes completely unserviceable and requires disposal, drain any fluids (if applicable) into approved containers and dispose of the product and fluids according to local regulations.

REGISTE
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WEEE REGULATIONS

Dispose of this product at the end of its working life in compliance with the EU Directive on Waste Electrical and Electronic Equipment (WEEE). When the product is no longer required, it must be disposed of in an environmentally protective way. Contact your local solid waste authority for recycling information.



Li-ion BATTERY REMOVAL

Under the Waste Batteries and Accumulators Regulations 2009, Jack Sealey Ltd are required to inform potential purchasers of products containing batteries (as defined within these regulations), that they are registered with V alpak's registered compliance scheme. Jack Sealey Ltd Batteries Producer Registration Number (BPRN) is BPR N00705.

Note: It is our policy to continually improve products and as such we reserve the right to alter data, specifications and component parts without prior notice.

Important: No Liability is accepted for incorrect use of this product.

Warranty: Guarantee is 12 months from purchase date, proof of which is required for any claim.

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TM103 Auto Ranging Digital Multimeter, TM103, Auto Ranging Digital Multimeter, Ranging Digital Multimeter, Digital Multimeter, Multimeter

References

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