

MY40 Digital Insulation Tester

MY40
SERIES



- **Digital model with 4 voltage/resistance ratings**
- **Multifunction**
Insulation resistance, AC voltage and conductor resistance measurement
Insulation test mode: Comparator, memory, auto-hold and discharge functions
All test modes: Live-line alarm (excluding AC voltage measurement), battery check and automatic power-off
- **Easy-to-view, fluctuation-free display**
- **Double-action safety mechanism**



Protection against inadvertent setting of rotary switch to 1000 V rating

Testing Performance Specifications

Model	Rating	Range Option	Resolution	Measuring Range	Tolerance	Lower Limit of measured Ω	Rated Current	Central Scale Value
MY40-01	125V/200M Ω	.4000	.1k Ω	0–.0199M Ω	\pm (5% of rdg+6dgt)	0.125M Ω	1mA	5M Ω
		4.000	1k Ω	.0200–10.00M Ω *	\pm (2% of rdg+6dgt)			
		40.00	10k Ω	10.01–200.0M Ω	\pm 5% of rdg			
		200.0	100k Ω					
	250V/200M Ω	.4000	.1k Ω	0–.0499M Ω	\pm (5% of rdg+6dgt)	0.25M Ω	1mA	5M Ω
		4.000	1k Ω	.0500–20.00M Ω *	\pm (2% of rdg+6dgt)			
		40.00	10k Ω	20.01–200.0M Ω	\pm 5% of rdg			
		200.0	100k Ω					
	500V/2000M Ω	.4000	1k Ω	0–0.999M Ω	\pm (5% of rdg+6dgt)	0.5M Ω	1mA	50M Ω
		40.00	10k Ω	1.000–500M Ω *	\pm (2% of rdg+6dgt)			
		400.0	100k Ω	501–2000M Ω	\pm 5% of rdg			
		2000	1M Ω					
	1000V/2000M Ω	.4000	1k Ω	0–1.999M Ω	\pm (5% of rdg+6dgt)	2M Ω	0.5mA	50M Ω
		40.00	10k Ω	2.000–1000M Ω *	\pm (2% of rdg+6dgt)			
		400.0	100k Ω	1001–2000M Ω	\pm 5% of rdg			
		2000	1M Ω					

* First effective measuring range; ** The minimum value at which the rated voltage can be maintained

Standard test conditions

Ambient temperature/humidity ranges: 23 \pm 5°C/45–75% RH

Tolerances under the above-mentioned conditions:

Deviation from zero scale value: 6 digits maximum

Indication of ∞ mark on bar graph: Approx. 4000 M Ω min. (500 V/1000 V)
Approx. 400 M Ω min. (125 V/250 V)

Open circuit voltage: 130% max. of rated voltage

Rated measuring current: 1 mA (0 to 20%) when in first effective measuring range
Short-circuit Current: 2 mA max.

AC voltage measurement (45–400 Hz)

Model	Range	Resolution	Accuracy	Input Impedance
MY40-01	600V	1V	\pm (2% of rdg + 6dgt)	Approx. 2 M Ω

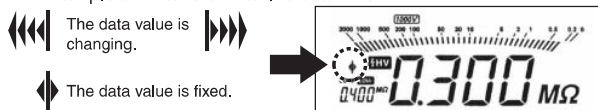
Conductor resistance measurement

Model	Range	Resolution	Accuracy	Open-circuit Voltage
MY40-01	400 Ω	0.1 Ω	\pm (2% of rdg + 8dgt)	Buzzer sound resistance: <40 Ω .

General Specifications

Display: 3 1/2-digit LCD; 4000 count; backlight-illuminated; logarithmic bar graph; extension bar graph—no fluctuations, as the display shows the digits of a reading in the order in which each digit settles.

Example of Extension Bar Indicator View



Comparator function: The MY40 alerts you by turning on the LOW symbol and sounding the buzzer if the measured value is smaller than the reference value. You can allocate as many as three user-defined reference values to each rating. The factory-set defaults are 0.1 M Ω , 0.2 M Ω and 0.4 M Ω .

Memory function: For each rating, you can save as many as 20 measurements at desired memory address numbers.

Automatic discharge function: The MY40 automatically begins discharge when you turn off the MEAS switch. You can monitor the state of discharge by checking the bar graph and make sure discharge is complete by checking that the segment bar disappear.

High-voltage indicators: The high-voltage symbol and LED lamp come on to alert you when the MY40 is in insulation testing mode or if any voltage remains to be discharged.

Live-line alarm: If you apply an AC voltage of approximately 40 V or higher across the input terminals, the MY40 alerts you by blinking the LED lamp and sounding the buzzer.

Overrange input alarm: If the voltage being measured exceeds 600 V during AC voltage measurement, the MY40 alerts you by flashing the Maximum Value indicator and sounding the buzzer.

Auto-hold function: The tester retains the measured resistance for approximately 5 seconds after the MEAS switch is turned off.

Dimensions: 125 (W) \times 103 (H) \times 53 (D) (mm), excluding protrusions

Weight: 420 g (main unit and batteries only, excluding accessories)

Batteries: Four AA (R6P) batteries

Note: See the list of accessories on the backside of this bulletin for more information on accessories.

Standard Accessories

Product	Part Number	Qty
Protection cover	93013	1
Shoulder strap	99005	1
Line probe	98001	1
Earth probe	98002	1
User's manual	—	1
Batteries	—	4

External Dimensions

Unit: mm

