

Single range: IR4010 SERIES
3-range: 3490



Flip the Cover

Quick and easy storage without
disconnecting the leads



Built for the Field

LIGHT

See better in the dark

Luminous Scale



Bright LED

- Work safely knowing that when the RED is lit, live wires, high voltage or electrical discharge is present
- The super bright light at the tip of the optional L9788-10 Test Leads adds to efficiency



Check the Battery Status

Be well-informed about the condition of your batteries. Green signals that the battery level is sufficiently high, and red warns of low battery power. Replace the batteries before the LED turns completely off.



BATT : Hi **BATT : Lo** **BATT : Dead**

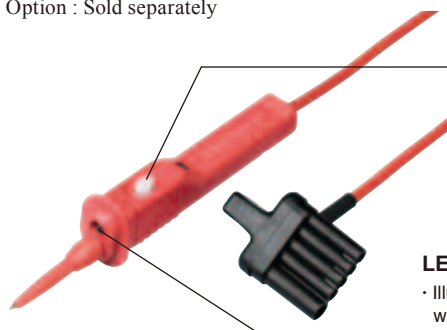
Check for Live Circuits

The LIVE CIRCUIT LED will light up in red whenever the voltage exceeds 20 V AC between the LINE and EARTH terminals, and when at least 20 V DC is still remaining during the auto discharge.



TEST LEAD WITH REMOTE SWITCH (RED) L9788-10

Option : Sold separately



REMOTE CONTROL SWITCH

- Start and stop the test at the touch of a button
- Test for insulation resistance single-handedly

LED LIGHT

- Illuminate the test location with a bright white LED

MEASURE SWITCH

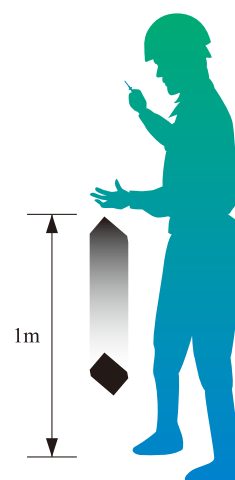
- Ergonomic design lets you start and stop tests with a single press
- Simply flip the switch to measure continuously



DROP PROOF



- Testers are built tough to withstand a 1 meter drop onto a concrete floor



Single range

ANALOG MΩ HiTESTER IR4016, IR4017, IR4018



Rated output voltage
Effective maximum indicated value

3-range INSULATION & CONTINUITY

ANALOG MΩ HiTESTER 3490

Rated output voltage 250V / 500V / 1000V



Easy-to-Read Scale

The 250V and 500V ranges share a common 100MΩ, making the display completely clean and uncluttered

SCALE

250V/ 50MΩ
500V/100MΩ ➔ 100MΩ

4000MΩ Scale at the 1000V Range

3Ω range, 200mA EN 61557

Checks ground wire continuity with current of 200mA

Also capable of testing the continuity of electrical grounds in accordance with EN 61557

Model Line-up

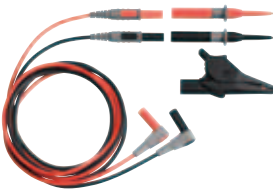
At A Glance

MODEL No.(Order Code)	Insulation Resistance			Resistance Measurement	AC voltage Measurement
	250 V	500 V	1000 V		
IR4016-20	—	100 MΩ	—	—	600 V AC
IR4017-20	—	1000 MΩ	—	—	600 V AC
IR4018-20	—	—	2000 MΩ	—	600 V AC
3490	100 MΩ	100 MΩ	4000 MΩ	3 Ω, 30 Ω	600 V AC

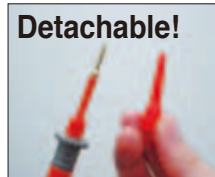
Accessories

TEST LEAD L9787 (1.2m)

Conforms to safety standard
IEC61010-031 (revised) for hand-held probes



Detachable!



included as a standard accessory
(This sleeve cannot be attached to previous products)

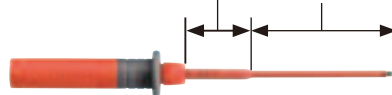
When measuring in a CAT III environment,
be sure to attach the sleeve to the test leads.

Options

BREAKER PIN

L9787-91 (for Model L9787)

22mm/ ϕ 3.7mm 48mm/ ϕ 2.6mm



Extra long tips extend deep into the breaker
openings for more reliable testing

COMPLETE TEST LEAD WITH REMOTE CONTROL SWITCH L9788-11 (1.2m)



MAGNETIC ADAPTER 9804-02

Magnetic tip for use with the
standard Models L9788-11,
L9788-10, L9787 (generally
compatible with M6 pan screws)

BREAKER PIN

L9788-92 (for Model L9788-10)

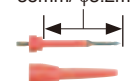


TEST LEAD WITH REMOTE CONTROL SWITCH L9788-10 (1.2m)

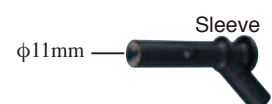


TIP PIN L9788-90

(for Model L9788-10)
35mm/ ϕ 3.2mm



When measuring in a CAT III
environment, be sure to attach
the sleeve to the test leads.



General Specifications

Power supply	Rated power voltage: 1.5 VDC × 4, LR6 alkaline battery × 4
Continuous operating time	Approx. 20 hours (at 500V range, no load*) * IR4018-20 :15 hours
Auto Power Save	Approx. 15 minutes
Operating Temperature & Humidity	0 to 40°C (32 to 104°F), 90% rh or lower (non-condensation) 40 to 50°C (104 to 122°F), at 50°C and below relative with linear decrease up to 50% rh
Storage Temperature & Humidity	-10 to 50°C (14 to 122°F), 90% rh or lower (non-condensation)
Maximum rated voltage to earth	600 VAC, Measurement Category III, Anticipated Transient Over voltage: 6000 V
Dielectric strength	7060 VAC, 50/60 Hz, Measurement terminals - electrical enclosure, current sensitivity 1 mA
Standards	Safety EN61010, EMC EN61326 3490 only: EN61557-1/-2/-4 IR4016-20, IR4017-20, IR4018-20: EN61557-1/-2
Drop Proof	On concrete: 1 m (3.28 ft)/1 time
Dimensions (excluding protrusions)	Approx. 159W × 177H × 53D mm (6.26"W × 6.97"H × 2.09"D)
Mass	Approx. 610 g (21.5 oz.) (including battery, not including test lead)
Accessories	Test lead L9787 ×1, Instruction manual ×1, Shoulder strap ×1, LR6 alkaline battery ×4

3490 specifications (Accuracy guaranteed for 1 year, Post-adjustment accuracy guaranteed for 1 year)

Model No. (Order Code)		3490		
Insulation resistance measurement	Rated output voltage	250 V DC	500 V DC	1000 V DC
	Effective maximum indicated value	100 MΩ		4000 MΩ
	Center scale value	1 MΩ		50 MΩ
	1st effective measuring range	0.05 to 50 MΩ		2 to 1000 MΩ
		±5% of indicated value		
	2nd effective measuring range	0.01 to 0.05 MΩ 50 to 100 MΩ		0.5 to 2 MΩ 1000 to 4000 MΩ
		±10% of indicated value		
	Open circuit voltage	1 to 1.2 times of rated output voltage		
	Lower limit measurement resistance value to be maintained rated output voltage	0.25 MΩ	0.5 MΩ	1 MΩ
	Rated current	1 mA (Tolerance: 1 to 1.2 times of the rating value)		
	Overload protection	660 V AC (10 sec.)		
Resistance measurement	Ranges	3 Ω		30 Ω
	Center scale value	1.5 Ω		15 Ω
	Accuracy	±0.09 Ω		±0.9 Ω
	Open-circuit voltage	4.1 to 6.9 V		
	Measuring current	200 mA DC or more		20 mA DC or more
	Overload protection	720 V AC (10 sec., by Fuse)		
AC voltage measurement	Measuring range	0 to 600 V (50/60 Hz)		
	Accuracy	±5% of maximum scale value		
	Input resistance	100 kΩ or more (50/60 Hz)		
	Overload protection	660 V AC (10 sec.)		

IR4016, IR4017, IR4018 specifications (Accuracy guaranteed for 1 year, Post-adjustment accuracy guaranteed for 1 year)

Model No. (Order Code)		IR4016-20	IR4017-20	IR4018-20
Insulation resistance measurement	Rated output voltage	500 V DC	500 V	1000 V DC
	Effective maximum indicated value	100 MΩ	1000 MΩ	2000 MΩ
	Center scale value	2 MΩ	20 MΩ	50 MΩ
	1st effective measuring range	0.1 to 50 MΩ	1 to 500 MΩ	2 to 1000 MΩ
		±5% of indicated value		
	2nd effective measuring range	0.01 to 0.1 MΩ 50 to 100 MΩ	0.5 to 1 MΩ 500 to 1000 MΩ	1 to 2 MΩ 1000 to 2000 MΩ
		±10% of indicated value		
	Open circuit voltage	1 to 1.2 times of rated output voltage		
	Lower limit measurement resistance value to be maintained rated output voltage	0.5 MΩ	0.5 MΩ	1 MΩ
	Rated current	1mA (Tolerance: 1 to 1.2 times of the rating value)		
Overload protection	600 V AC (10 sec.)		660 V AC (10 sec.)	
AC voltage measurement	Measuring range	0 to 600 V (50/60 Hz)		
	Accuracy	±5% of maximum scale value		
	Input resistance	500 kΩ or more (50/60 Hz)		
	Overload protection	600 V AC (10 sec.)		660 V AC (10 sec.)

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