

ANALOG M Ω HITESTER SERIES Models IR4016-20, IR4017-20, IR4018-20, 3490

Field measuring instruments



Single range: IR4010 SERIES

3-range: 3490







Quick and easy storage without disconnecting the leads









Built for the Field

LIGHT

See better in the dark

Luminous Scale



Bright LED

- \cdot Work safely knowing that when the RED is lit, live wires, high voltage or electrical discharge is present
- \cdot The super bright light at the tip of the optional 9788 Test Leads adds to





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.



still remaining during the auto discharge.



Check for

Live Circuits

The LIVE CIRCUIT LED will light up

in red whenever the voltage exceeds

20V AC between the LINE and EARTH

terminals, and when at least 20V DC is

TEST LEAD WITH REMOTE CONTROL SWITCH



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



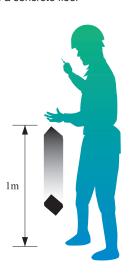
Simply flip the switch to measure continuously







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



Model Line-up

At A Glance

MODEL	Insulation Resistance			Resistance	AC voltage
	250V	500V	1000V	Measurement	Measurement
IR4016-20	_	100MΩ	_	_	600V AC
IR4017-20	_	1000MΩ	_	_	600V AC
IR4018-20	_	_	$2000 \mathrm{M}\Omega$	_	600V AC
3490	$100 \mathrm{M}\Omega$	100MΩ	$4000 \mathrm{M}\Omega$	$3\Omega, 30\Omega$	600V AC

Single range

Models IR4016-20, IR4017-20, IR4018-20



Rated output voltage Effective maximum indicated value

3-range

Model 3490

INSULATION & CONTINUITY

Rated output voltage 250V / 500V / 1000V



Easy-to-Read Scale

The 250V and 500V ranges share a common $100M\Omega$, making the display completely clean and uncluttered

SCALE 250V/ 50MΩ 500V/100MΩ

 $100M\Omega$

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

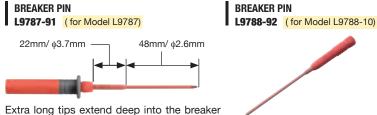
Accessories



When measuring in a CAT III environment,

be sure toattach the sleeve to the test leads.

Options



openings for more reliable testing

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

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



TIP PIN L9788-90 (for Model L9788-10) 35mm/ \phi3.2mm



environment, be sure to attach the sleeve to the test leads.

MAGNETIC ADAPTER Magnetic tip for use with the standard Models L9788-11,

Sleeve φ11mm -L9788-10, L9787 (generally compatible with M6 pan screws)

9804-02

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) *1		
Auto Power Save	Approx. 15 minutes		
Operating Temperature & Humidity	0 to 40°C (32 to 104°F), 90% rh or lower (non-condensating) 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-condensating)			
Maximum rated voltage to earth 600 VAC, Measurement Category III, Anticipated Transient Overvoltage: 6000V			
Dielectric strength	7060 VAC, 50/60Hz, 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: 1m/1 time		
Dimensions (excluding protrusions)	Approx. 159W × 177H × 53D mm (6.26"W × 6.97"H × 2.09"D)		
Mass	Approx. 610g (21.5 oz.) (including battery, not including test lead)		
Accessories	Test lead L9787 ×1, Instruction manual ×1, Shoulder strap ×1, LR6 alkaline battery ×4		

^{*1} IR4018-20:15 hours

□ 3490 specifications

Guaranteed for one year at 23°C±5°C (73°F±9°F) and 90% rh

	Rated output voltage	250 V DC	500 V DC	1000 V DC	
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	Effective maximum indicated value	100 MΩ		4000 MΩ	
	Center scale value	1 ΜΩ		50 MΩ	
	1st effective	0.05 to $50~\text{M}\Omega$		2 to 1000 MΩ	
Insulation resistance measurement	measuring range	±5% of indicated value			
	2nd effective	0.01 to 0.05 M Ω 50 to 100 M Ω		0.5 to 2 M Ω 1000 to 4000 M Ω	
	measuring range	±10% of indicated value			
	Open circuit voltage	1 to 1.2 times of rated out		put voltage	
	Lower limit measurement resistance value to be maintained reted output voltage	0.25 ΜΩ	0.5 ΜΩ	1 ΜΩ	
	Rated current	1mA (Tolerance: 1 to 1.2 times of the rating value)		f the rating value)	
	Overload protection	660 V AC (10 sec.)			
	Ranges	3 Ω		30 Ω	
	Center scale value	1.5 Ω		15 Ω	
Resistance	Accuracy	±0.09 Ω		±0.9 Ω	
measurement	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	$100 \text{ k}\Omega$ or more (50/60 Hz)			
	Overload protection	660 V AC (10 sec.)			

☐ IR4016-20, IR4017-20, IR4018-20 specifications

Guaranteed for one year at 23°C ±5°C (73°F ±9°F) and 90% rh

Model		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 ΜΩ	20 MΩ	50 MΩ
	1st effective	0.1 to 50 MΩ	1 to 500 MΩ	2 to 1000 M Ω
	measuring range	±5% of indicated value		
	2nd effective	0.01 to 0.1 MΩ 50 to 100 MΩ	0.5 to 1 MΩ 500 to 1000 MΩ	$1 \text{ to } 2 \text{ M}\Omega$ $1000 \text{ to } 2000 \text{ M}\Omega$
	measuring range	±10% of indicated value		
	Open circuit voltage	1 to 1.2 times of rated output voltage		
	Lower limit measurement resistance value to be maintained reted output voltage	0.5 ΜΩ	0.5 ΜΩ	1 ΜΩ
	Rated current	1mA (Tolerance: 1 to 1.2 times of the rating value)		
	Overload protection	600V AC (10 sec.)		660V AC (10 sec.)
AC voltage measurement	Measuring range	0 to 600 V (50/60 Hz)		
	Accuracy	±5% of maximum scale value		
	Input resistance	$500 \text{ k}\Omega$ or more ($50/60\text{Hz}$)		
	Overload protection	600V AC (10 sec.)	660V AC (10 sec.)

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