



ANALOG M Ω HITESTER SERIES

Field measuring instruments



Models IR 4016-20, IR 4017-20, IR 4018-20, 3490





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.



BATT: Hi BATT: Lo BATT: Dead

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 still remaining during the auto discharge.



TEST LEAD WITH REMOTE CONTROL SWITCH



REMOTE CONTROL SWITCH

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

DROP PROOF



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

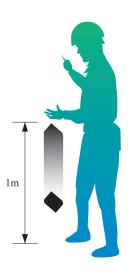
MEASURE SWITCH

 Ergonomic design lets you start and stop tests with a single press



Simply flip the switch to measure continuously





Model Line-up

At A Glance

MODEL	Insulation Resistance			Resistance	AC voltage
	250V	500V	1000V	Measurement	Measurement
IR 4016-20	_	100MΩ	_	_	600V AC
IR 4017-20	_	1000MΩ	_	_	600V AC
IR 4018-20	_	_	2000MΩ	_	600V AC
3490	100MΩ	100MΩ	$4000 \mathrm{M}\Omega$	$3\Omega, 30\Omega$	600V AC

Single range

Models IR 4016-20, IR 4017-20, IR 4018-20



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 $500V/100M\Omega$

 $100M\Omega$

 $4000M\Omega$ Scale at the 1000V Range

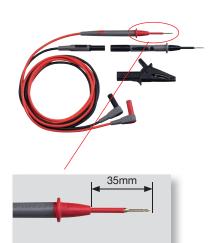
 3Ω range, 200mA EN 61557

Checks ground wire continuity with current of 200mA

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

Accessories

TEST LEAD 9787 (1.2m)



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

Options

TEST LEAD WITH REMOTE CONTROL SWITCH 9788 (1m)



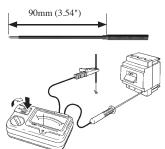
COMPLETE TEST LEAD WITH REMOTE CONTROL SWITCH 9788-01 (1m)

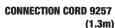


TEST PROBE 9294

(1.2m)

BREAKER PIN 9288 (for Model 9294)







General Specifications

Rated power voltage: 1.5 VDC × 4, LR6 alkaline battery × 4			
Approx. 20 hours (at 500V range, no load) *1			
Approx. 15 minutes			
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			
-10 to 50°C (14 to 122°F), 90%RH or lower (non-condensating)			
600 VAC, Measurement Category III, Anticipated Transient Overvoltage: 6000V			
5312 VAC, 50/60Hz, Measurement terminals - electrical enclosure, current sensitivity 1 mA			
Safety EN61010, EMC EN61326 *3490 only: EN61557-1/-2/-4 *IR 4016-20, IR 4017-20, IR 4018-20: EN61557-1/-2			
On concrete: 1m/1 time			
Approx. 159W × 177H × 53D mm (6.26"W × 6.97"H × 2.09"D)			
Approx. 610g (21.5 oz.) (including battery, not including test lead)			
9787 Test Lead, Instruction manual, Shoulder strap, LR6 alkaline battery × 4			

^{*1} IR 4018-20:15 hours

☐ 3490 specifications

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

				1	
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	0.05 to 50 MΩ		2 to 1000 MΩ	
	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 ou		output voltage		
	Lower limit measurement resistance value to be maintained reted output voltage	0.25 MΩ	0.5 ΜΩ	1 ΜΩ	
	Rated current	1mA (Tolerance: 1 to 1.2 times of the rating value)		f the rating value)	
	Overload protection	1200V AC (10 sec.)			
Resistance Measurement	Ranges	3Ω		30Ω	
	Center scale value	1.5Ω		15Ω	
	Accuracy	±0.09Ω		±0.9Ω	
	Open-circuit voltage	4.1 to 6.9 V			
	Measuring current	200mA DC or more		20mA DC or more	
	Overload protection	720V 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 (50/60Hz)			
	Overload protection	1200V AC (10 sec.)			

☐ IR 4016-20, IR 4017-20, IR 4018-20 specifications

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

Model		IR 4016-20	IR 4017-20	IR 4018-20	
Insulation Resistance Measurement	Rated output voltage	500 V DC	500V	1000 V DC	
	Effective maximum indicated value	100 MΩ	1000 MΩ	2000 MΩ	
	Center scale value	2 MΩ	20 MΩ	50 MΩ	
	1st effective	0.1 to 50 MΩ	1 to 500 MΩ	2 to 1000 MΩ	
	measuring range	±5% of indicated value			
	2nd effective	0.01 to 0.1 MΩ 50 to 100 MΩ	0.5 to $1~\mathrm{M}\Omega$ 500 to $1000~\mathrm{M}\Omega$	1 to 2 MΩ 1000 to 2000 MΩ	
	measuring range	±10% of indicated value			
	Open circuit voltage		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)		rating value)	
	Overload protection	600V AC (10 sec.)		1200V 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.)	1200V AC (10 sec.)	



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