

ANALOGUE

3131A

KEW INSULATION/CONTINUITY TESTER

The Model 3131A offers unmatched performance, and feature including test lead resistance zero adjustment for time-saving continuous operation, a clear ease to read illuminated scale, and a live circuit warning.

3131A



Accessory Test Leads MODEL 7122



Specification

Insulation	3005A/3007A	3131A	3132A
Test Voltage	250V/500V/1000V	250V/500V/1000V	250V/500V/1000V
Measuring Ranges (Mid-scale Value)	20M Ω /200M Ω /2000M Ω	100M Ω /200M Ω /400M Ω (1M Ω) (2M Ω) (4M Ω)	100M Ω /200M Ω /400M Ω (1M Ω) (2M Ω) (4M Ω)
Output Voltage on open circuit	Rated test voltage + 20%, -0%	Rated test voltage + 20%, -0%	Rated test voltage + 20%, -0%
Nominal Current	1mA DC min.	1mA DC min.	1mA DC min.
Output Short Circuit Current	1.5 mA DC approx.	1.3 mA DC approx.	1.3 mA DC approx.
Accuracy	$\pm 1.5\%rdg \pm 5dgt$ (20M Ω /200M Ω) $\pm 10\%rdg \pm 3dgt$ (2000M Ω)	0.05 - 10M Ω /0.1 - 20M Ω /0.2 - 40M Ω (Accuracy Guaranteed Ranges) $\pm 5\%$ of indicated value	0.1 - 10M Ω /0.2 - 20M Ω /0.4 - 40M Ω (Accuracy Guaranteed Ranges) $\pm 5\%$ of indicated value

Continuity

Measuring Ranges (Mid-scale Value)	20 Ω /200 Ω /2000 Ω	2 Ω /20 Ω (1 Ω) (10 Ω)	3 Ω /500 Ω (1.5 Ω) (20 Ω)
Output Voltage on open circuit	7~12V DC	4~9V DC	4.1V DC approx.
Measuring Current	200mA DC min.	200mA DC min.	210mA DC min.
Accuracy	$\pm 1.5\%rdg \pm 5dgt$ (20 Ω) $\pm 1.5\%rdg \pm 3dgt$ (200 Ω /2000 Ω)	$\pm 3\%$ of scale length	$\pm 3\%$ of scale length

AC Voltage

AC Voltage range	0 - 600V AC	—	0 - 600V AC
Accuracy	$\pm 5\%rdg \pm 3dgt$	—	$\pm 5\%$ of scale length

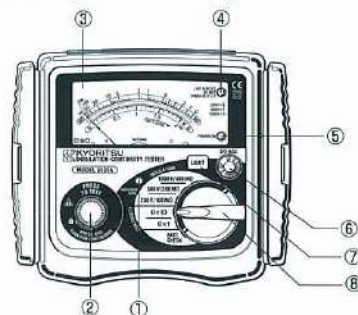
General

Safety Standard	IEC61010-1 CAT. III 300V Pollution Degree 2 IEC61010-2-031 IEC61557-1/2/4	IEC61010-1 CAT. III 300V Pollution Degree 2 IEC61010-2-031 IEC61557-1/2/4	IEC61010-1 CAT. III 300V Pollution Degree 2 IEC61010-2-031 IEC61557-1/2/4
IP Rating	IEC60529-IP54	IEC60529-IP54	IEC60529-IP54
EMC Standard	IEC61326-1	IEC61326-1	IEC61326-1
Withstand Voltage	3700V AC for 1 minute	3700V AC for 1 minute	3700V AC for 1 minute
Power Source	R6P(AA) (1.5V) $\times$ 8	R6P(AA) (1.5V) $\times$ 6	R6P(AA) (1.5V) $\times$ 6
Dimensions	185(L) $\times$ 167(W) $\times$ 89(D)mm	185(L) $\times$ 167(W) $\times$ 89(D)mm	106(L) $\times$ 160(W) $\times$ 72(D)mm
Weight	900g approx.	860g approx.	560g approx.
Accessories	7122(Test leads) Pouch for test leads 8923(F500mA/600V fuse) $\times$ 2 R6P(AA) $\times$ 8, Shoulder Strap Instruction Manual	7122(Test leads) Pouch for test leads 8923(F500mA/600V fuse) $\times$ 2 R6P(AA) $\times$ 6, Shoulder Strap Instruction Manual	7122(Test leads) Pouch for test leads 8923(F500mA/600V fuse) $\times$ 2 R6P(AA) $\times$ 6, Shoulder Strap Instruction Manual

Features

- Test insulation up to 100M Ω at 250V, 200M Ω at 500V, 400M Ω at 1000V and continuity up to 20 Ω .
- LIVE circuit warning lamp plus audible warning.
- Automatic discharge of circuit capacitance when TEST button is released.
- Fuse protected (continuity range only).
- Battery check LED.
- Front panel zero adjust.
- Back light function to facilitate working at dimly lit situations.
- PRESS TO TEST button with lock down feature.

Layout Diagram



- ① METER MOVEMENT ZERO ADJUST
- ② TEST BUTTON
- ③ SCALE PLATE
- ④ LIVE CIRCUIT WARNING LED
- ⑤ POWER-ON INDICATION LED
- ⑥ CONTINUITY ZERO ADJUST
- ⑦ LIGHT SWITCH
- ⑧ RANGE SELECTOR SWITCH