

Test and measurement Kyoritsu 6143 kit

The Kyoritsu 6143 kit is comprised of:

- 2117R True RMS AC clamp meter - with current, voltage, resistance & continuity
- 3132A Analogue insulation & continuity tester
- KT170-AU voltage tester with single pole phase & phase rotation.

All packed inside a high quality carry pouch. It is the ultimate test kit for any electrical trade.



Kyoritsu 3132A analogue insulation tester

- Dust and drip proof construction (designed to IEC 60529 IP54)
- Designed to meet IEC 61010-1 & IEC 61557 safety standard.
- 1mA rated test current at the minimum resistance.
- 200mA measuring current on continuity testing.
- Automatic discharge of circuit capacitance.
- Live circuit warning buzzer and neon lamp.
- Small and lightweight. Shock resistant new case material.
- AC voltmeter with linear, easy-to-read scale.
- Operates on AA, R6x6 dry batteries.

Kyoritsu 2117R TRMS clamp meter



- Tear drop jaw design to allow easy access in crowded cable areas
- Integrated non contact voltage detection
- Large easy-to-read display with 0.01 A resolution
- Accurate reading with True RMS 60/600/1000A auto-ranging
- Long battery life with 170 hrs continuous measuring time
- CAT IV 300V / CAT III 600V safety ratings

Kyoritsu KT170-AU voltage tester



- Comply with the latest standards IEC 61243 and IEC 61010
- Large and bright LEDs: Values are visible in dark environments
- Two functions are available in one model. Measurement without battery & Self Test (all LED on)
- Durable test leads capable of withstanding harsh environments
- Penlight (white LED) and Auto-power ON / OFF
- Audible indication
- Probe protection cover
- IP65 rating (IEC 60529)

Specifications



Kyoritsu 3132A
analogue insulation tester

Insulation resistance	
Test voltage	250V/500V/1000V
Measuring ranges (Mid-scale value)	100MΩ/200MΩ/400MΩ (1MΩ) (2MΩ) (4MΩ)
Output voltage on open circuit	Rated test voltage +20%, -0%
Nominal current	1mA DC min.
Output short circuit current	1 - 2mA DC
Accuracy	0.1 - 10MΩ/0.2 - 20MΩ/0.4 - 40MΩ (Accuracy guaranteed ranges) ±5% of indicated value
Continuity	
Measuring ranges (Mid-scale value)	3Ω/500Ω(1.5Ω/20Ω)
Output voltage on open circuit	4.1V DC approx.
Measuring current	210mA DC min.
Accuracy	±1.5% of scale length
AC voltage	
AC voltage range	0 - 600V AC
Accuracy	±5% of scale length
General	
Applicable standards	IEC 61010-1 CAT III 600V Pollution degree 2 IEC 61557-1/2/4 IEC 60529(IP54) IEC 61326-1(EMC)
Power source	R6(AA)(1.5V) × 6
Dimensions	106(L) × 160(W) × 72(D)mm
Weight	560g approx.
Accessories	7122B(Test leads) 9074(Cord case) 8923(Fuse[0.5A/600V]) × 2, R6(AA) × 6 9121(Shoulder strap) Instruction manual



Kyoritsu 2117R TRMS clamp meter

AC A	60.00/600.0/1000A (Auto-ranging) ±1.5%rdg±4dgt [45 - 65Hz] ±2.0%rdg±5dgt [40 - 1kHz]
AC V	60.00/600.0V (Auto-ranging) ±1.0%rdg±2dgt [45 - 65Hz] (600V) ±1.5%rdg±4dgt [40 - 1kHz] (60/600V)
DC V	60.00/600.0V (Auto-ranging) ±1.0%rdg±3dgt (60V) ±1.2%rdg±3dgt (600V)
Ω	600.0Ω/6.000/60.00/600.0kΩ (Auto-ranging) ±1.0%rdg±5dgt (600Ω) ±2.0%rdg±3dgt (6/60/600kΩ)
Continuity buzzer	600Ω (Buzzer sounds below 90Ω)
Conductor size	o 33mm max.
Applicable standards	IEC 61010-1 CAT IV 300V, CAT III 600V Pollution degree 2 IEC 61010-031, IEC 61010-2-032, IEC 61010-2-033, IEC 61326-2-2, IEC 60529, EN 50581(RoHS)
Power source	R03/LR03(AAA)(1.5V)×2
Continuous measuring time	Approx.170 hours (Auto power save : approx.10 minutes)
Dimensions /Weight	204(L)×81(W)×36(D)mm / 220g Approx. (including batteries)
Accessories	7066A (Test leads), 9079 (Carrying case), R03(AAA)×2, Instruction manual



Kyoritsu KT170-AU voltage tester with phase checking

Voltage test	
Voltage range	12 - 690V AC/DC
LED	
Nominal voltage	12/24/50/120/230/400/690V AC(16 - 400Hz), DC(±)
Tolerance (Threshold voltage)	Light on at more than: 7±3V (12V LED) 18±3V (24V LED) 37.5±4V (50V LED) 75%±5% of nominal voltage (120/230/400/690V LED)
Response time	< 0.6s at 100% of each nominal voltage
Peak current	Is<3.5mA (at 690V)
Measurement Duty	30s ON (operation time) 240s OFF (recovery time)
Single-pole phase test Voltage range	100 - 690V AC (50/60Hz)

Phase rotation test	
System	Three-phase 4-wire system 200 - 690V phase-to-phase AC (50/60Hz)
Phase range	120±5 degree
Continuity test	
Detection range	0 - 400kΩ + 50%
Test current	Approx. 1.5μA (battery 3V, 0Ω)
Operating temperature and humidity ranges	-15 - 55°C, max 85% RH (No condensation)
Storage temperature and humidity ranges	-20 - 70°C, max 85% RH (No condensation) (KT170)
Applicable Standards	IEC 61243-3, IEC 61010-1, IEC 61557-7 CAT IV 600V / CAT III 690V Pollution degree 2, IEC 60529 (IP65)
Power source	LR03(AAA) (1.5V) × 2
Dimensions & Weight	246(L) × 64(W) × 26(D)mm 195g (including batteries)
Accessories	LR03(AAA) × 2, KTA01(4mm metal tips[2pcs/set]), KTA02(4mm rubber caps[2pcs/set]), Instruction manual