

KTS 1630
Dimensions 220 x 210 x 105 mm

Weight 1130g including batteries

Power Source 8 x 1.5V R6 or LR6

CONTINUITY TESTING
Measuring Ranges

 20 / 200 / 2000 Ω Autoranging

Open Circuit Voltage >6V (as per BS 7671)

Short Circuit Current >200mA DC (as per BS 7671)

Accuracy 20/200 Ω $\pm$ (1.5% + 3 dgt)

 2000 Ω $\pm$ (2.5% + 3 dgt)

INSULATION TESTING
Measuring Ranges 0 / 2000M Ω Autoranging

Test Voltages 250V, 500V and 1000V DC

Output Voltage on Open Circuit

250V + 20% - 0% 500V + 20% - 0% 1000V + 20% - 0%

Rated Current >1mA (as per BS 7671)

Accuracy 0~100M Ω $\pm$ (2% + 2 dgt)

 100M Ω -2000M Ω $\pm$ (2% + 4 dgt)

LOOP IMPEDANCE TESTING
Rated Voltage 230V AC $\pm$ 10% (50Hz)

Voltage Measuring Range 100 - 250V AC (50Hz)

Impedance Ranges 20 / 200 / 2000 Ω
Nominal Test Current

 25A (20 Ω range), 1.2A (200 Ω range),

 1.2A (2000 Ω range)

Test Period 1/2 cycle (10ms)

Base Accuracy 20 Ω range: $\pm$ (2% + 2 dgt)

PSC TESTING
Rated Voltage 230V AC $\pm$ 10% (50Hz)

PSC Ranges 2000A and 20kA

Accuracy

PSC accuracy derived from measured loop impedance specification and measured voltage specification

RCD TESTING
Rated Voltage 230V AC $\pm$ 10% (50Hz)

Trip Current Settings

RCD x 1/2 : 10, 30, 100, 300, 500mA

RCD x 1 : 10, 30, 100, 300, 500mA

RCD x 5 : 10, 30, 100, 300, 500mA

Trip Current Duration RCD x 1/2 x 1 : 2000mS,

RCD x 5 : 200mS fast trip 150 mS

Accuracy

Trip current + 10% - 0% of test current at 230V.

 Trip time $\pm$ (2% + 3 dgt)

FAULT CURRENT
Rated Voltage

 230V AC $\pm$ 10% (50Hz)

Fault Current Ranges

2000A and 20kA

Nominal Test Current

1.2A (2000A) range 25A (20kA)

Accuracy

PSC accuracy derived from measured loop impedance specification and measured voltage specification

EARTH RESISTANCE
Ranges 20 Ω 200 Ω 2000 Ω
Output Voltage 100V P-P

Frequency 800Hz

Accuracy $\pm$ (2% + 5 dgt)

Operating Temperature and Humidity

0 to 40°C, relative humidity 80% or less

User Warnings Displayed

Live Circuit, Low Battery Power, Overtemperature, Incorrect Wiring

KTS 1620
Dimensions 183 x 130 x 100 mm

Weight 1130g including batteries

Power Source 8 x 1.5V R6 or LR6

CONTINUITY TESTING
Measuring Ranges

 20 / 200 / 2000 Ω Autoranging

Open Circuit Voltage >6V (as per BS 7671)

Short Circuit Current >200mA DC (as per BS 7671)

Accuracy $\pm$ (1.5% + 3 dgt)

INSULATION TESTING
Measuring Ranges

 20 / 200M Ω Autoranging

Test Voltages 250V, 500V and 1000V DC

Output Voltage on Open Circuit

250V + 20% - 0% 500V + 20% - 0%

1000V + 20% - 0%

Rated Current >1mA (as per BS 7671)

Accuracy $\pm$ (1.5% + 3 dgt)

LOOP IMPEDANCE TESTING
Rated Voltage 230V AC $\pm$ 10% (50Hz)

Voltage Measuring Range 100 - 250V AC (50Hz)

Impedance Ranges 20 / 200 / 2000 Ω
Nominal Test Current

 25A (20 Ω range), 2.3A (200 Ω range),

 225mA (2000 Ω range)

Test Period 1/2 cycle (10ms)

Accuracy

 20 Ω range: $\pm$ (3% + 4 dgt) 200 Ω range: $\pm$ (3% + 4 dgt)

 2000 Ω range: $\pm$ (3% + 4 dgt)

PSC TESTING
Rated Voltage 230V AC $\pm$ 10% (50Hz)

PSC Ranges 200A, 2000A and 20kA

Accuracy

PSC accuracy derived from measured loop impedance specification and measured voltage specification

RCD TESTING
Rated Voltage 230V AC $\pm$ 10% (50Hz)

Trip Current Settings

RCD x 1/2 : 10, 30, 100, 300, 500, 1000mA

RCD x 1 : 10, 30, 100, 300, 500, 1000mA

RCD x 5 : 10, 30, 100, 300mA

(on x 5 range max. current 1.7A)

Trip Current Duration

RCD x 1/2 x 1 : 2000mS, RCD fast : 50mS

Accuracy

Trip current + 10% - 0% of test current at 230V.

 Trip time $\pm$ (1% + 3 dgt)

Operating Temperature and Humidity

0 to 40°C, relative humidity 80% or less

Storage Temperature and Humidity

-10 to +50°C, relative humidity 75% or less

Display Large format 3 1/2 digit LCD

User Warnings Displayed

Live Circuit, Low Battery Power, Overtemperature, Incorrect Wiring

KTS 1610
Dimensions 175 x 115 x 86 mm

Weight 720g (0.72kg) including batteries

Power Source 6 x 1.5V R6 or LR6

CONTINUITY TESTING
Measuring Ranges

 0~19.99 and 10.0~199.9 Ω (2 auto ranges)

Open Circuit Voltage >4V (as per BS 7671)

Short Circuit Current 200mA DC (as per BS 7671)

Accuracy $\pm$ (3% + 3 dgt)

INSULATION TESTING
Measuring Ranges

 0~19.99 and 10.0~199.9M Ω (2 auto ranges)

Test Voltage 500V DC

Output Voltage on Open Circuit 570V DC $\pm$ 6%

Rated Current >1mA (as per BS 7671)

Accuracy $\pm$ (3% + 3 dgt)

LOOP IMPEDANCE TESTING
Rated Voltage 230V AC $\pm$ 10% (50Hz)

Voltage Measuring Range 100 - 250V AC (50Hz)

Impedance Ranges 20 / 2000 Ω
Nominal Test Current

 24A (20 Ω range) 15mA (2000 Ω range)

Test Period 1/2 cycle (10ms)

Accuracy

 20 Ω range: $\pm$ (3% + 8 dgt) 2000 Ω range: $\pm$ (3% + 8 dgt)

RCD TESTING
Rated Voltage 230V AC $\pm$ 10% (50Hz)

Trip Current Settings

RCD x 1/2 : 5, 15, 50, 150, 250mA

RCD x 1 : 10, 30, 100, 300, 500mA

RCD fast : 150mA

Trip Current Duration

RCD x 1/2, x 1 : 2000m, RCD fast: 40mS

Accuracy

 Trip current $\pm$ 3% of test current at 230V.

 Trip time $\pm$ (3% + 3 dgt)

Operating Temperature and Humidity

0 to 40°C, relative humidity 85% or less

Storage Temperature and Humidity

-10 to +50°C, relative humidity 75% or less

Display Large format 3 1/2 digit LCD

User Warnings Displayed

Live Circuit, Low Battery Power, Overtemperature, Incorrect Wiring