

## KT1790 Voltage Detector



### PRODUCT DATA SHEET

#### KT1790

#### 2 POLE VOLTAGE DETECTOR

- UK specific slender probe tips to GS38 and with no need to swap ends
- Designed to the new international safety standards IEC 61243-3 / IEC 61010-1 Measurement Category CAT 1V 600V
- Clear oversize LED indication
- LCD Voltage indication
- AC and DC voltage tests up to 690V
- Continuity test
- Clear audible tone
- Single pole phase test
- Polarity indication
- Phase rotation test
- Self diagnostic test
- Double moulding gives comfortable grip
- Auto power on/off
- Extra bright white light pen torch
- Probe cover protects user and probe tips
- IP65

#### ACCESSORIES

- Built in test leads
- Batteries
- Printed Instruction Manual with Certificate of Conformity

#### OPTIONAL

- Calibration Certificate
- Kewprove3 - Proving Unit
- Kewlok - Locking Off Device

### SPECIFICATIONS

#### VOLTAGE TEST

LED Tolerance	7±3V (12V LED), 18±3V (12V LED), 37.5V±4V (50V LED) 75%±5% of nominal voltage (120/230/400/690V LED)
LED Response Time	<0.6S at 100% of each nominal voltage
LCD Auto/range resolution	300V (6.0~299.9)/0.1V, 690V (270~759AC/710DC)/1V
LCD Accuracy (23+/-5°C)	±1.5V (7~100V), ±1% ± 5dgt (100~690V), AC(16~400Hz), DC(±)
LCD Response Time	<1s at 90% of each voltage
Peak Current	Is<3.5mS (at 690V)
Internal Battery Consumption	Approx. 80mA (battery 3V, measuring 690V AC)
Measurement Duty	30S On (operational time) 240S Off (recovery time)

#### SINGLE POLE PHASE TEST

Voltage Range	100~690V AC (45~100Hz)
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#### PHASE ROTATION TEST

System	Three-phase 4-wire system 200~690V phase-to-phase (100~400V earth-to-phase) AC 50/60Hz
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#### CONTINUITY TEST

Detection Range	0~400K Ω + 50% (23 ± 5°C)
Test Current	Approx. 1.5μA (battery 3V, 0 Ω)
Internal Battery Consumption	Approx. 80mA (battery 3V, 0 Ω)

#### GENERAL

Operating ref. conditions	-15~55°C no Condensation max 85% RH
Storage ref. condition	-20~70°C no Condensation, max 85% RH
Safety standards	IEC 61010-1:2010, IEC 61243-3:2010, IEC 601010-031:2008 Category: CAT III 690, CAT IV 600V pollution deg 2 IEC 61557-7:2007
IP Rating	IP65 (IEC60529)
Dimensions	243 x 64 x 26 mm
Weight	190g (including batteries)
Batteries	3V (2 x 1.5V AAA / LR03)