

KT65DL

Advanced Multifunction Tester



PRODUCT DATA SHEET

KT65DL

- Easy to use
- Anti-Trip Technology for full no trip LOOP testing on all RCD types
- 0.001 resolution high current loop
- 55V loop testing for centre tapped 110V systems
- Max Zs tables for MCBs and fuses
- Advanced memory – assigns type of test to results e.g. R2 or R1 + R2 for continuity
- Test button in probe as well as lockdown test button for 'hands free' testing
- Easy PFC & PSC measurement without the need to alter test probes
- 250, 500 & 1000V insulation tests with auto discharge
- Additional LED for warning of high voltage output in insulation test mode
- Memory for test lead resistance compensation
- Selectable touch voltage
- Backlit display
- Auto-test memory for RCD testing – single screen results
- Pat testing including download with optional PAT adaptor
- End of line calibration certificate included

INCLUDED ACCESSORIES

- ACC064SP G7 Test remote with remote test button
- ACC065 G7 Test lead set
- Batteries
- Instruction Manual
- Calibration Certificate
- Software
- Kamp 12 Mains lead
- Test lead pouch
- Soft carry case
- USB cable

PRODUCT INFO

- 325 x 235 x 280 Boxed (WxDxH mm)
- 3.6kg Weight
- EAN 5060084081420
- Made in Japan

SPECIFICATION

CONTINUITY

| Open Circuit Voltage (DC) | Short Circuit Current | Range | Accuracy | |
|---------------------------|-----------------------|-------------------|----------------------------|-------------------------|
| 5V±20% | Greater than 200mA | 20 / 200 / 2000 Ω | 0 ~ 0.19 Ω 0.2 ~ 2000 Ω | ±0.1 Ω ±(2%rdg+8dgt) |

2Ω Buzzer: Buzzer sounds when measured 2 Ω Buzzer Accuracy: 2 Ω±0.3 Ω resistance is 2 Ω or less.

INSULATION

| Open Circuit Voltage (DC) | Related Circuit Current | Ranges (Auto Range) | Accuracy |
|---------------------------|-------------------------|-----------------------------------|---|
| 250V+25% - 0% | 1mA or greater @ 250kΩ | 20 / 200MΩ Auto Ranging | 0~19.99MΩ ±(2%rdg+6dgt) 20~200MΩ ±(5%rdg+6dgt) |
| 500V+25% - 0% | 1mA or greater @ 500kΩ | 20 / 200 / 1000MΩ Auto Ranging | 0~199.9MΩ ±(2%rdg+6dgt) 200~1000MΩ ±(5%rdg+6dgt) |
| 1000V+20% - 0% | 1mA or greater @ 1MΩ | 20 / 200 / 2000MΩ Auto Ranging | 0~199.9MΩ ±(2%rdg+6dgt) 200~2000MΩ ±(5%rdg+6dgt) |

LOOP IMPEDANCE

| Function | | Rated Voltage | Nominal Test Current at 0 External Loop ; Magnitude / Duration (*2) | Range | Accuracy |
|------------|------------|--|---|---|---|
| L-PE | 0.01 ΩRes | 50~260Hz 50/60Hz | 20Ω: 6A/20ms 200Ω: 2A/20ms 2000Ω: 15mA/20ms | 20/200/2000Ω Auto-Ranging | ±(3%rdg+4dgt) *3 ±(5%rdg+15dgt) *4 ±(3%rdg+8dgt) *5 |
| L-PE | 0.001 ΩRes | 230V +10%~15% 50/60Hz | 2Ω: 6A/90ms | 2Ω | ±(3%rdg+35mΩ) |
| L-PE (ATT) | | 100~260V 50/60Hz | L-N:6A/30ms N-PE:10mA/approx. 5s | 20/200/2000Ω Auto-Ranging (L-N < 20Ω) | ±(3%rdg+6dgt) *3 ±(3%rdg+8dgt) *4 |
| L-N/L-L | | 50/60Hz L-N:50~300V L-N:300~500V | 20Ω: 6A/20ms | 20Ω | ±(3%rdg+4dgt) *3 ±(5%rdg+15dgt) *4 ±(3%rdg+8dgt) *5 |


*2: at 230V *3: 230V+10%~15% *4: 50V~100V *5: voltages except for *3 and *4

PSC (L-N/L-L / PFC (L-PE))

| Function | Rated Voltage | Nominal Test Current at 0 External Loop : Magnitude / Duration (*6) | Range | Accuracy |
|-----------|---------------------|---|----------------------------|---|
| PSC | 50~500V 50/60Hz | 6A/20ms | 2000A/20kA Auto-Ranging | PSC/PFC accuracy is derived from measured loop impedance specification and measured voltage specification |
| PFC | 50~260V 50/60Hz | 6A/20ms 2A/20ms 15mA/500ms | | |
| PFC (ATT) | 100~260V 50/60Hz | L-N:6A/60ms N-PE:10mA/approx. 5s | | |

*6: 230V

RCD (Type AC, ACS, A, AS)

| Function PFC | Rated Voltage | Accuracy | | |
|--|--|--------------|----------|-----------|
| | | Trip Current | | Trip Time |
| | 230V+ 10%~15% 50/60-Hz | AC Type | A Type | |
| X1/2 | | - 8%~2% | -10%~0% | |
| X1 | | + 2%~+8% | 0%~+10% | |
| X5 | | +2%~+8% | 0%~+ 10% | |
| Ramp () | | ± 4% | ±10% | |
| Auto | Depending on the accuracy at each function. Measurement sequence: X1/2 0°->X1/2 180°->X1 0°->X1 180°-> X5 0°-> X5 180° Measurements with X5 aren't carried out for RCDs with normal current of 100mA or more. | | | |
| Continuity / Insulation / Loop / PSC ranges uses the rolling average | | | | |

EARTH

| Measuring Frequency | Range | Accuracy |
|---------------------|-----------------------------------|---|
| 825Hz | 20 / 200 / 2000 Ω Auto-Ranging | 20 Ω range: ±(3%rdg+0.1Ω) 200 / 2000 Ω range: ±(3%rdg+3dgt) (Auxiliary earth resistance 100±5%) |

PHASE ROTATION

| Rated Voltage | Remarks |
|--------------------|---|
| 50~500V 50/60Hz | Correct phase sequence: are displayed "1.2.3" and ⚡ mark Reversed phase sequence: are displayed "3.2.1" and ⚡ mark |

VOLTS

| Function | Rated Voltage | Range | Accuracy |
|-----------|--------------------|---------|-----------------|
| Volts | 25~500V 45~65Hz | 25~500V | ±(2%rdg+4dgt) |
| Frequency | 25~500V 45~65Hz | 45~65Hz | ±(0.5%rdg+2dgt) |

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