# Specification
# ET4
# Electrical Tester



## ELECTRICAL

All specified accuracies are at 23°C ± 5°C, <75% RH for 1 year.
Temperature Coefficient: < 0.1 x (specified accuracy) per °C. (0°C to 18°C, 28°C to 40°C)

### DC Voltage

| Range | Resolution | Input Impedance | Accuracy |
|---|---|---|---|
| 500mV | 0.1mV | 1.1MΩ | ± (0.5% of rdg + 2 dgts) |
| 5V | 0.001V | 1MΩ | |
| 50V | 0.01V | | |
| 500V | 0.1V | | |
| 600V | 1V | | |

Overload Protection: 600V DC or AC rms

### AC Voltage

| Range | Resolution | Input Impedance | Accuracy |
|---|---|---|---|
| 500mV | 0.1mV | 1 MΩ | Not specified |
| 5V | 0.001V | | 50-60Hz ± (1.2% of rdg + 5 dgts)<br>60-500Hz ± (2.0% of rdg + 5 dgts) |
| 50V | 0.01V | | |
| 500V | 0.1V | | |
| 600V | 1V | | |

Overload Protection: 600V DC or AC rms

### DC Current

| Range | Resolution | Accuracy |
|---|---|---|
| 200A | 0.1A | ± (2.0% of rdg + 5 dgts) |

Maximum input current: 200A

### AC Current

| Range | Resolution | Accuracy (50 Hz to 60 Hz) |
|---|---|---|
| 200A | 0.1A | ± (2.0% of rdg + 10 dgts) |

Maximum input current: 200A

### Frequency

Frequency measurement using AC current range

| Range | Resolution | Accuracy |
|---|---|---|
| 30Hz to 400Hz | 0.1Hz | ± (0.1% of rdg + 5 dgts) |

Input sensitivity > 10A AC rms.
Maximum input current: 200A AC rms

### Resistance

| Range | Resolution | Open circuit voltage | Accuracy |
|---|---|---|---|
| 500Ω | 0.1Ω | -3.2V DC | ± (1.0% of rdg + 5 dgts) |
| 5kΩ | 0.001kΩ | -1.1V DC approx | |
| 50kΩ | 0.01kΩ | | |
| 500kΩ | 0.1kΩ | | |
| 5MΩ | 0.001MΩ | | ± (1.5% of rdg + 5 dgts) |
| 50MΩ | 0.1MΩ | | ± (3.0% of rdg + 5 dgts) |

Overload Protection: 600V DC or AC rms

### Continuity

| Range | Resolution | Response time | Accuracy |
|---|---|---|---|
| 500Ω | 0.1Ω | 100ms | <30Ω |

Overload protection: 600V DC or AC rms

### Diode Test

| Range | Resolution | Test current | Open circuit voltage | Accuracy |
|---|---|---|---|---|
| 2V | 1mV | 0.8mA approx. | 3.2V DC approx. | ± (1.5% rdg + 5 dgts) |

Overload protection: 600V DC or AC rms

### Non-Contact Voltage Indicator

Range: 70V to 600V (50Hz to 60Hz)

## GENERAL

Display: Liquid crystal display with a maximum reading of 5000 digits, dual display
Polarity: Automatic, positive implied, '-' for negative polarity indication
Overrange: OL) or (-OL) is displayed
Zero: Automatic
Low battery indication: The battery capacity is shown by the symbols on the LCD.If the symbol is flashing followed by a **LO.Bt** display, the battery needs replacing as measurement accuracy can no longer be guaranteed

Measurement rate: 3.3 times per second, nominal
Auto power off: After 30 minutes approx

Power: 9V, PP3 alkaline battery (IEC 6LR61, NEDA 1604A)
Battery life: 50 hours typical with carbon zinc
100 hours typical with alkaline

Fork maximum conductor size: 15mm diameter
Dimensions: 202.5mm (L) x 51mm (W) x 44mm (D)
Weight: Approx. 200g including battery

Includes: TL17 test leads, 9V battery and instructions.

## ENVIRONMENTAL

Operating environment: 0°C to 40°C, <70% RH
Storage temperature: -20°C to 60°C, 0 to 80% RH
Altitude: Up to 2000m

## SAFETY

Conforms to BS EN 61010-1, BS EN 61010-2-032, CAT III 600 V
Class II, Double Insulation
Pollution Degree 2, indoor use

## EMC

Conforms to BS EN 61326-1

## TL17 TEST LEADS SPECIFICATION

Maximum voltage: 1000V AC/DC
Maximum current: 10A continuous.
Connectors: 4mm banana plugs.

Conforms to BS EN 61010-031,
Insulated end cap fitted: CAT IV 600V, CAT III 1000V, 10A
Insulated end cap removed: CAT II 1000V, 10A.
Class II, Double Insulation
Pollution degree 2

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