

| Models | UT511 | UT512 | UT513A | UT516B |
|------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| Page | 150 | 150 | 150 | 147 |
| |  |  |  |  |
| Test voltage | 1000V | 2500V | 5000V | 12000V |
| Insulation resistance | 10GΩ | 100GΩ | 1TΩ | 10TΩ |
| Step voltage | | | | 50%-120% in range and 10% steps |
| Short-circuit current | <2mA | <1.8mA | 3.5mA | 5mA |
| Comparison function | ● | ● | ● | ● |
| Polarization index (PI) | ● | ● | ● | ● |
| Dielectric absorption ration (DAR) | ● | ● | ● | ● |
| Secondary display for current | | | | ● |
| Auto discharge | ● | ● | ● | ● |
| Low resistance (Continuity) | 999.9Ω | | | |
| Auto range | ● | ● | ● | ● |
| DC voltage | 1000V | 600V | 600V | 1000V |
| AC voltage | 750V | 600V | 600V | 750V |
| USB data transmission | | ● | ● | ● |
| Data storage | 18 | 18 | 18 | 999 |
| High voltage prompt | ● | ● | ● | ● |
| LCD backlight | ● | ● | ● | ● |
| Analog bar | ● | ● | ● | ● |
| Low battery indication | ● | ● | ● | ● |
| Overload prompt | ● | ● | ● | ● |
| Light alarm | | | | ● |
| Buzzer alarm | ● | ● | ● | ● |
| Auto power off | ● | ● | ● | |
| Timing measurement | | | | ● |
| Meets IEC 61557 | | | 61557-1:2007, 61557-2:2007 | |
| Category ratings | CAT III 600V | CAT III 600V | CAT III 600V | CAT III 1000V / CAT IV 600V |
| Certificates | CE/UKCA | CE/UKCA | CE/UKCA | |

The UT516B is a digital 12kV insulation resistance tester with 6 test voltages: 500V, 1000V, 2500V, 5000V, 10000V and 12000V. Fine adjustment of voltages with 10% step at each range (except 12000V) is available. Test data can be saved in the tester memory and transferred to a PC via the dedicated USB cable. UT516B is easy to operate and widely used in measurement and maintenance of power equipment, power supply circuits, motors, cables, and other insulation materials.



UT516B

- AC/DC voltage
- USB data transfer
- Low battery indication
- Data storage
- LCD backlight
- Polarization Index
- Over-range alarm
- Max display
- Comparative measurement
- Measurement time selection

| | Test Voltage | Range | Accuracy |
|-----------------------------------|---------------------------|---------------------------|--------------------|
| Insulation Resistance Measurement | 500V | 0.50MΩ~4.99G | ±(5%+5) |
| | | 5.00G~49.9GΩ | ±(10%+10) |
| | | 50.0GΩ~500GΩ | for reference only |
| | 1000V | 1.00MΩ~9.99GΩ | ±(5%+5) |
| | | 10.0G~99.9GΩ | ±(15%+10) |
| | 2500V | 100GΩ~1000GΩ | for reference only |
| 2.50MΩ~24.9GΩ | | ±(5%+5) | |
| 5000V | 25.0G~249GΩ | ±(15%+10) | |
| | 250GΩ~2.5TΩ | for reference only | |
| 10000V | 5.00MΩ~49.9GΩ | ±(5%+5) | |
| | 50G~499GΩ | ±(15%+20) | |
| 12000V | 500GΩ~5.0TΩ | for reference only | |
| | 10.0MΩ~99.9GΩ | ±(10%+10) | |
| Output voltage | | 100G~999GΩ | ±(20%+20) |
| | | 1000GΩ~10TΩ | for reference only |
| Load current | 500V, 1000V, 2500V, 5000V | 12.0MΩ~99.9GΩ | ±(10%+10) |
| | | 100G~999GΩ | ±(20%+20) |
| DC voltage measurement | 30V~1000V | 1000GΩ~10TΩ | for reference only |
| AC voltage measurement | 30V~750V (50~60Hz) | 500V, 1000V, 2500V, 5000V | 0~+10% |
| PC software for data analysis | √ | 10000V, 12000V | -5~+10% |
| Backlight Function | √ | 1mA | 0%~+20% |
| Data storage | 999 sets of data | 0.15~1.2mA | 0%~+20% |
| Dielectric Absorption Ratio (DAR) | 0.00~999 | | ±(3%+5) |
| Polarization Index (PI) | 0.00~999 | | |

| Characteristics | |
|------------------------------|-----------------------------------------------------------------------------------------------------|
| Standard accessories | User manual, test leads (red/black/green 1 each), USB cable, power adaptor, 1.5V alkaline batteries |
| Power | 1.5V alkaline batteries (LR14) X 10, power adaptor |
| Display | 71 x 34mm |
| Product size | 410 x 342 x 204mm |
| Product net weight | 6.6kg |
| Standard individual packing | Gift box, tool box |
| Standard quantity per carton | 1pc |
| Standard carton measurement | 510 x 320 x 420mm |
| Standard carton gross weight | 10.2kg |