

	INSULATION RESISTANCE METER UT-501B UNI-T	INSULATION RESISTANCE METER UT-502A UNI-T	INSULATION RESISTANCE METER UT-505A UNI-T	INSULATION RESISTANCE METER UT-511 UNI-T	INSULATION RESISTANCE METER UT-512 UNI-T	INSULATION RESISTANCE METER UT-513A UNI-T
						
	99.25 EUR 99.25 EUR	136.63 EUR 136.63 EUR	215.64 EUR 215.64 EUR	146.84 EUR 146.84 EUR	204.46 EUR 204.46 EUR	401.48 EUR 401.48 EUR
Resistance measurement	• Test voltage 250 V : 0 ... 5.5 GΩ#937 • Test voltage 500 V : 0 ... 5.5 GΩ#937 • Test voltage 1000 V : 0 ... 5.5 GΩ#937	• Test voltage 500 V : 0 ... 5 GΩ#937 • Test voltage 1000 V : 0 ... 5 GΩ#937 • Test voltage 2500 V : 0 ... 20 GΩ#937	• Test voltage 50 V : 0.01 MΩ ... 50 MΩ ± (3% + 5) • Test voltage 100 V : 0.01 MΩ ... 100 MΩ ± (3% + 5) • Test voltage 250 V : 0.01 MΩ ... 200 MΩ ± (1.5% + 5) • Test voltage 500 V : 0.01 MΩ ... 2 GΩ#937 ± (1.5% + 5) • Test voltage 1000 V : 0.01 MΩ ... 20 GΩ#937 ± (1.5% + 5)	• Test voltage 100 V : 0.1 MΩ ... 500 MΩ • Test voltage 250 V : 0.5 MΩ ... 1.99 GΩ#937 • Test voltage 500 V : 1 MΩ ... 3.99 GΩ#937 • Test voltage 1000 V : 2 MΩ ... 10 GΩ#937	• Test voltage 500 V : 0.5 MΩ ... 5 GΩ#937 • Test voltage 1000 V : 2 MΩ ... 10 GΩ#937 • Test voltage 1500 V : 5 MΩ ... 20 GΩ#937 • Test voltage 2500 V : 10 MΩ ... 100 GΩ#937	• Test voltage 500 V : 0.0 MΩ ... 20 GΩ#937 • Test voltage 1000 V : 0.0 MΩ ... 40 GΩ#937 • Test voltage 2500 V : 0.0 MΩ ... 100 GΩ#937 • Test voltage 5000 V : 0.0 MΩ ... 1000 GΩ#937
Measuring accuracy	• 0 MΩ ... 99.9 MΩ ± (3% + 5) • 100 MΩ ... 5.5 GΩ#937 ± (5% + 5)	• 0 MΩ ... 99.9 MΩ ± (3% + 5) • 100 MΩ ... 10 GΩ#937 ± (5% + 5) • 10 GΩ#937 ... 20 GΩ#937 ± (10% + 5)	...	• 100 kΩ ... 100 MΩ ± (3% + 5) • > 100 MΩ ± (5% + 5)	• 100 kΩ ... 100 MΩ ± (3% + 5) • 100 MΩ ... 10 GΩ#937 ± (5% + 5) • 10 GΩ#937 ... 100 GΩ#937 ± (10% + 5)	• 0.0 MΩ ... 99.9 MΩ ± (3% + 5) • 100 MΩ ... 9.99 GΩ#937 ± (5% + 5) • 10 GΩ#937 ... 99.9 GΩ#937 ± (10% + 5) • ≥ 100 GΩ#937 ± (20% + 5)
Open circuit voltage	Test voltage + 10 %	Test voltage + 10 %	Test voltage + 20 %	Test voltage + 20 %	Test voltage + 20 %	Test voltage + 20 %
Measurement of small resistances	0 Ω ... 200 Ω ± (2% + 3) @ 0.01 Ω	0 Ω ... 200 Ω ± (2% + 3) @ 0.01 Ω	20 kΩ ± (1.5% + 3) @ 0.01 Ω	...	...	...
Test current	1 mA ... 1.1 mA	1 mA ... 1.1 mA	1 mA	1 mA ... 1.2 mA @ 100 kΩ / 100 V 1 mA ... 1.2 mA @ 250 kΩ / 250 V 1 mA ... 1.2 mA @ 500 kΩ / 500 V 1 mA ... 1.2 mA @ 1 MΩ / 1000 V	1 mA ... 1.2 mA @ 500 kΩ / 500 V 1 mA ... 1.2 mA @ 1 MΩ / 1000 V 1 mA ... 1.2 mA @ 1.5 MΩ / 1500 V 1 mA ... 1.2 mA @ 2.5 MΩ / 2500 V	1 mA ... 1.2 mA @ 500 kΩ / 500 V 1 mA ... 1.2 mA @ 1 MΩ / 1000 V 1 mA ... 1.2 mA @ 2.5 MΩ / 2500 V 1 mA ... 1.2 mA @ 5 MΩ / 5000 V
Short-circuit current	< 2 mA	< 1.8 mA	< 2 mA	~ 2 mA	< 2 mA	< 2 mA
AC voltage measurement	30 V ... 750 V ± (2% + 3) @ 1 V	30 V ... 750 V ± (2% + 3) @ 1 V	600 V ± (2% + 3) @ 0.1 V	30 V ... 750 V ± (2% + 3) @ 1 V	30 V ... 100 V ± (2% + 8) @ 1 V 100 V ... 600 V ± (2% + 5) @ 1 V	30 V ... 600 V ± (2% + 3) @ 1 V
DC voltage measurement	—	—	600 V ± (2% + 3) @ 0.1 V	30 V ... 1000 V ± (2% + 3) @ 1 V	30 V ... 600 V ± (2% + 5) @ 1 V	30 V ... 600 V ± (2% + 3) @ 1 V
Automatic change of measuring ranges	✓	✓	✓	✓	✓	✓
RS-232	—	—	—	—	—	—
USB	—	—	—	—	✓	✓
Main features	• Warning of using high voltage during the measurement, • Polarization index measurement (PI), • Measurement of dielectric absorption : 60s / 15s, 60s / 30s, • Automatic power-off, • Reset function for measuring low resistances, • Large, readable LCD display with backlight, • Low battery level alarm, • Aesthetic and solid construction	• Warning of using high voltage during the measurement, • Polarization index measurement (PI), • Measurement of dielectric absorption : 60s / 15s, 60s / 30s, • Automatic power-off, • Reset function for measuring low resistances, • Large, readable LCD display with backlight, • Low battery level alarm, • Aesthetic and solid construction	• Analog bargraph, • Possibility to perform a comparative measurement, • Warning of using high voltage during the measurement, • Polarization index measurement (PI), • Measurement of dielectric absorption : 60s / 15s, 60s / 30s, • Save to 99 measurement results in the device memory, • True RMS - accurate measurement of the RMS current and voltage for any waveform, • Freezing the last reading, • Automatic shutdown after 3 minutes of inactivity, • Large, readable LCD display with backlight, • Low battery level alarm, • Aesthetic and solid construction	• Bargraf, • Possibility to perform a comparative measurement, • Warning of using high voltage during the measurement, • Polarization index measurement (PI), • Maximum duration of the measurement: 30 min, • Save to 18 measurement results in the device memory, • Large, readable LCD display with backlight, • Low battery level alarm, • Aesthetic and solid construction	• Bargraf, • Possibility to perform a comparative measurement, • Warning of using high voltage during the measurement, • Polarization index measurement (PI), • Maximum duration of the measurement: 15 min, • Save to 18 measurement results in the device memory, • Large, readable LCD display with backlight, • Low battery level alarm, • Aesthetic and solid construction	• Bargraf, • Possibility to perform a comparative measurement, • Warning of using high voltage during the measurement, • Polarization index measurement (PI), • Maximum duration of the measurement: 15 min, • Save to 18 measurement results in the device memory, • Large, readable LCD display with backlight, • Low battery level alarm, • Aesthetic and solid construction
Operation temp	0 °C ... 40 °C	0 °C ... 40 °C	0 °C ... 40 °C	0 °C ... 40 °C	0 °C ... 40 °C	-10 °C ... 40 °C

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Permissible relative humidity	≤ 85 % (non-condensing)	≤ 85 % (non-condensing)	≤ 85 % (non-condensing)	≤ 85 % (non-condensing)	≤ 80 % (non-condensing)	≤ 85 % (non-condensing)
Power supply	6 x 1.5V, type AA/LR6/FR6 battery - included	6 x 1.5V, type AA/LR6/FR6 battery - included	6 x 1.5V, type AA/LR6/FR6 battery - included	• 8 x 1.5V, type R14/LR14 battery - included, • 15 V DC / 600 mA (power adapter not included)	• 8 x 1.5V, type R14/LR14 battery - included, • 15 V DC / 600 mA (power adapter included)	• 8 x 1.5V, type R14/LR14 battery - included, • 15 V DC / 1 A (power adapter included)
Weight	0.42 kg	0.42 kg	0.66 kg	0.92 kg	1.07 kg	1.28 kg
Dimensions	150 x 100 x 71 mm	150 x 100 x 71 mm	225 x 103 x 62 mm	202 x 155 x 91 mm	202 x 155 x 94 mm	202 x 155 x 91 mm
Manufacturer / Brand	UNI-T	UNI-T	UNI-T	UNI-T	UNI-T	UNI-T
Guarantee	2 years	2 years	2 years	2 years	2 years	2 years



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