

Code: UT-195DS

## UNIVERSAL METER **UT-195DS** UNI-T

The UT-195DS is a universal digital meter used to measure: voltage, current, resistance, capacitance, frequency, and checking the correctness of diodes operation. The meter has the function of automatic change of measuring ranges, as well as the relative measurement mode.

The device meets the IP65 tightness class.



DC voltage measurement:	<p>600 mV <math>\pm</math> (0.7% + 3) @ 0.1 mV ,          6 V <math>\pm</math> (0.5% + 3) @ 0.001 V ,          60 V <math>\pm</math> (0.7% + 3) @ 0.01 V ,          600 V <math>\pm</math> (0.7% + 3) @ 0.1 V ,          1000 V <math>\pm</math> (0.7% + 3) @ 1 V ,          6 ... 60 V <math>\pm</math> (1.5% + 4) AC + DC</p>
AC voltage measurement:	<p>600 mV <math>\pm</math> (1% + 4) @ 0.1 mV ,          6 V <math>\pm</math> (0.7% + 3) @ 0.001 V ,          60 V <math>\pm</math> (1% + 3) @ 0.01 V ,          600 V <math>\pm</math> (1% + 3) @ 0.1 V ,          750 V <math>\pm</math> (1% + 3) @ 1 V</p> <ul style="list-style-type: none"> <li>• LPF mode :          6 ... 750 V <math>\pm</math> (2% + 3) @ 0.1 V</li> <li>• LoZ mode :          600 V <math>\pm</math> (2% + 3) @ 0.1 V</li> </ul>
DC current measurement:	<p>600 <math>\mu</math>A <math>\pm</math> (0.8% + 3) @ 0.1 <math>\mu</math>A ,          6000 <math>\mu</math>A <math>\pm</math> (0.8% + 3) @ 1 <math>\mu</math>A ,          60 mA <math>\pm</math> (0.8% + 3) @ 0.01 mA ,          600 mA <math>\pm</math> (0.8% + 3) @ 0.1 mA ,          6 A <math>\pm</math> (1% + 3) @ 0.001 A ,          20 A <math>\pm</math> (1.2% + 5) @ 0.01 A</p>

AC current measurement:	600 $\mu$ A $\pm$ (1% + 3) @ 0.1 $\mu$ A , 6000 $\mu$ A $\pm$ (1% + 3) @ 1 $\mu$ A , 60 mA $\pm$ (1% + 3) @ 0.01 mA , 600 mA $\pm$ (1% + 3) @ 0.1 mA , 6 A $\pm$ (1.2% + 3) @ 0.001 A , 20 A $\pm$ (1.5% + 5) @ 0.01 A
Resistance measurement:	600 $\Omega$ $\pm$ (1% + 2) @ 0.1 $\Omega$ , 6 k $\Omega$ $\pm$ (0.8% + 2) @ 0.001 k $\Omega$ , 60 k $\Omega$ $\pm$ (0.8% + 2) @ 0.01 k $\Omega$ , 600 k $\Omega$ $\pm$ (0.8% + 2) @ 0.1 k $\Omega$ , 6 M $\Omega$ $\pm$ (1.2% + 3) @ 0.001 M $\Omega$ , 60 M $\Omega$ $\pm$ (2.5% + 5) @ 0.01 M $\Omega$
Capacitance measurement:	6 nF $\pm$ (3% + 10) @ 1 pF , 60 nF ... 600 $\mu$ F $\pm$ (3% + 5) @ 10 pF ... 100 nF , 6 mF ... 60 mF $\pm$ 10% @ 1 $\mu$ F ... 10 $\mu$ F
Inductance measurement:	—
Frequency measurement:	100 Hz ... 40 MHz $\pm$ (0.1% + 4) @ 0.01 Hz ... 0.01 MHz
Square-wave signal duty ratio measurement:	0.1 % ... 99.9 % $\pm$ (2% + 5) @ 0.1 %
Temperature measurement:	—
Automatic change of measuring ranges:	✓
hFE:	—
Diode test:	✓
Sound signal of the continuity test:	✓
Checking TTL logic states:	—
RS-232:	—
USB:	—
Main features:	<ul style="list-style-type: none"> <li>• True RMS - accurate measurement of the RMS current and voltage for any waveform,</li> <li>• Possibility to measure AC voltage using low measuring impedance (LoZ mode),</li> <li>• LPF function - allows to measure the AC voltage values using low-pass filter with a frequency limit of 200 Hz,</li> <li>• Robust housing that meets the requirements of the IP65 "Index of Protection" class,</li> <li>• Freezing the last reading,</li> <li>• Test and identification of phase sequence for a three-phase motor: 600 V,</li> <li>• Writing the value MAX / MIN,</li> <li>• REL - relative measurement mode,</li> <li>• Writing the value peak,</li> <li>• Analog bargraph,</li> <li>• Large, double LCD display with backlight,</li> <li>• Low battery level alarm,</li> <li>• Flashlight built-in,</li> <li>• Aesthetic and solid construction,</li> <li>• The set includes a practical case</li> </ul>
Power supply:	9V, type 6LR61 battery (included)
Weight:	0.47 kg
Dimensions:	195 x 95 x 61 mm
Manufacturer / Brand:	UNI-T
Guarantee:	2 years