

Code: UT-195DS

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

Net: **185.82 EUR** Gross: **185.82 EUR**

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.



### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                      |
|-------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| DC voltage measurement: | 600 mV $\pm$ (0.7% + 3) @ 0.1 mV ,<br>6 V $\pm$ (0.5% + 3) @ 0.001 V ,<br>60 V $\pm$ (0.7% + 3) @ 0.01 V ,<br>600 V $\pm$ (0.7% + 3) @ 0.1 V ,<br>1000 V $\pm$ (0.7% + 3) @ 1 V ,<br>6 ... 60 V $\pm$ (1.5% + 4) AC + DC                                                             |
| AC voltage measurement: | 600 mV $\pm$ (1% + 4) @ 0.1 mV ,<br>6 V $\pm$ (0.7% + 3) @ 0.001 V ,<br>60 V $\pm$ (1% + 3) @ 0.01 V ,<br>600 V $\pm$ (1% + 3) @ 0.1 V ,<br>750 V $\pm$ (1% + 3) @ 1 V<br><br>• LPF mode :<br>6 ... 750 V $\pm$ (2% + 3) @ 0.1 V<br><br>• LoZ mode :<br>600 V $\pm$ (2% + 3) @ 0.1 V |
| DC current measurement: | 600 $\mu$ A $\pm$ (0.8% + 3) @ 0.1 $\mu$ A ,<br>6000 $\mu$ A $\pm$ (0.8% + 3) @ 1 $\mu$ A ,<br>60 mA $\pm$ (0.8% + 3) @ 0.01 mA ,<br>600 mA $\pm$ (0.8% + 3) @ 0.1 mA ,<br>6 A $\pm$ (1% + 3) @ 0.001 A ,<br>20 A $\pm$ (1.2% + 5) @ 0.01 A                                          |
| AC current measurement: | 600 $\mu$ A $\pm$ (1% + 3) @ 0.1 $\mu$ A ,<br>6000 $\mu$ A $\pm$ (1% + 3) @ 1 $\mu$ A ,<br>60 mA $\pm$ (1% + 3) @ 0.01 mA ,<br>600 mA $\pm$ (1% + 3) @ 0.1 mA ,<br>6 A $\pm$ (1.2% + 3) @ 0.001 A ,<br>20 A $\pm$ (1.5% + 5) @ 0.01 A                                                |

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|--------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Resistance measurement:                    | 600 $\Omega \pm (1\% + 2)$ @ 0.1 $\Omega$ ,<br>6 k $\Omega \pm (0.8\% + 2)$ @ 0.001 k $\Omega$ ,<br>60 k $\Omega \pm (0.8\% + 2)$ @ 0.01 k $\Omega$ ,<br>600 k $\Omega \pm (0.8\% + 2)$ @ 0.1 k $\Omega$ ,<br>6 M $\Omega \pm (1.2\% + 3)$ @ 0.001 M $\Omega$ ,<br>60 M $\Omega \pm (2.5\% + 5)$ @ 0.01 M $\Omega$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Capacitance measurement:                   | 6 nF $\pm (3\% + 10)$ @ 1 pF ,<br>60 nF ... 600 $\mu$ F $\pm (3\% + 5)$ @ 10 pF ... 100 nF ,<br>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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |

## PRESENTATION

Front panel:



DELTA-OPTI Monika Matysiak; <https://www.delta.poznan.pl>  
POL; 60-713 Poznań; Graniczna 10  
e-mail: delta-opti@delta.poznan.pl; tel: +(48) 61 864 69 60



Rear view:



Place for 9V battery:



In the kit:



Device is secured by handy case:



#### PACKAGE

|                                  |                    |
|----------------------------------|--------------------|
| Dimensions (L x W x H): 0x0x0 mm | Gross Weight: 0 kg |
|----------------------------------|--------------------|

