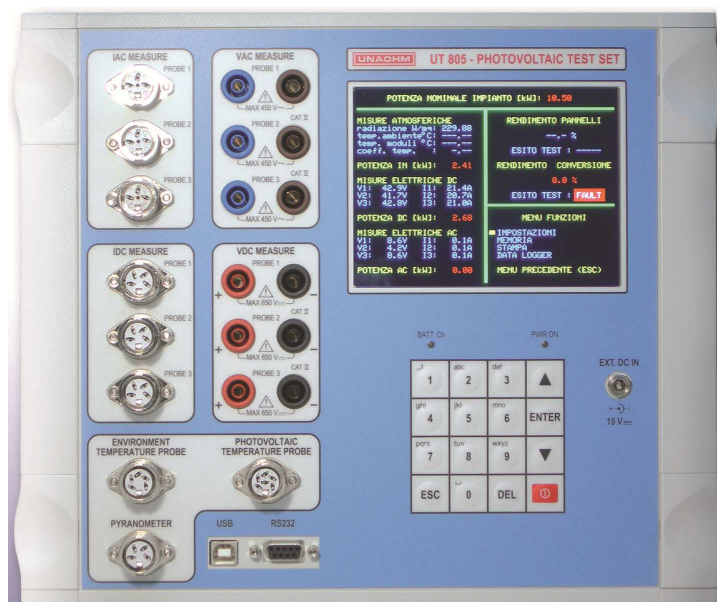
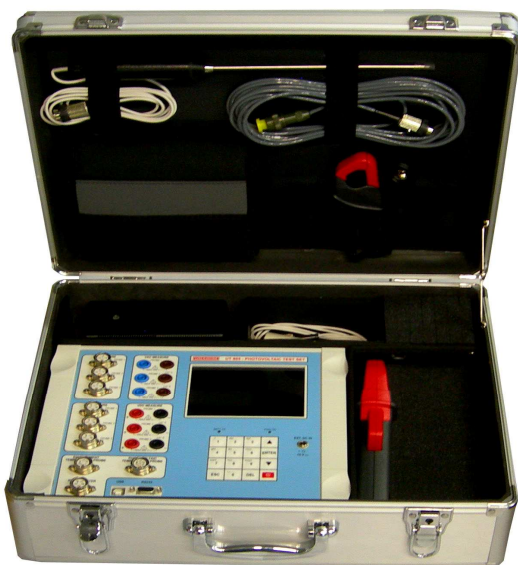




# UT805 Mono – UT905 Three

## PHOTOVOLTAIC TEST SET

**MEASUREMENT EQUIPMENT  
TO INSTALL, TEST AND CERTIFY  
PHOTOVOLTAIC PLANTS**



- MEASURE OF SINGLE-PHASE AND THREE-PHASE PLANTS
- SIMULTANEOUS MEASURE OF UP TO THREE GROUPS OF MODULES
- CHOICE OF THE FULL SCALE DC CURRENT(200A,1400A)
- CHOICE OF THE FULL SCALE AC CURRENT(200A,1000A, 3000A)
- SIMULTANEOUS DISPLAY OF ALL MEASURES
- SIMULTANEOUS ACQUISITION OF ALL MEASURES
- CALCULATION OF THE PHOTOVOLTAIC PANELS' YIELD
- CALCULATION OF THE DC/AC CONVERSION YIELD
- DATA LOGGER WITH STORAGE CAPACITY OF 20 PLANTS WITH 12 MEASURES EACH
- PRINTING OF THE MEASUREMENT OUTCOMES FOR CERTIFICATION
- PC INTERFACE RS232 AND USB TO HANDLE STORED DATA BY PC
- POSSIBILITY OF REMOTE CONNECTION OF THE ATMOSPHERIC PROBES WITH UNIT UT 925

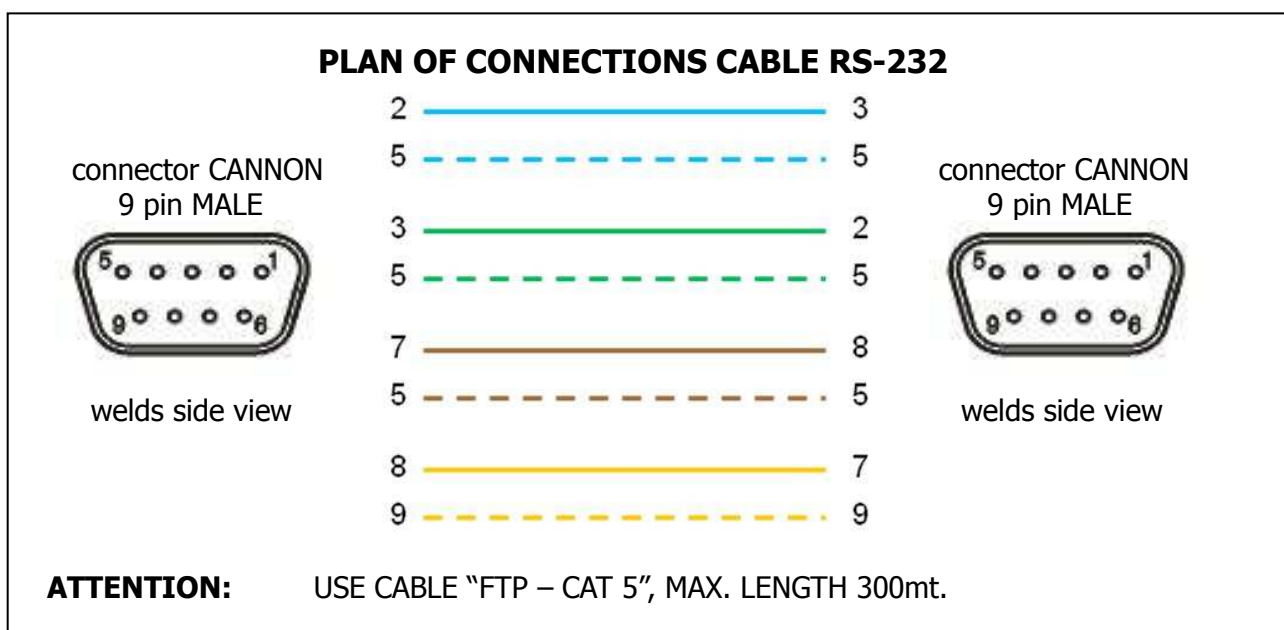


## UT 805 Mono / UT 905 Three SPECIFICATIONS

<b>MONITOR</b>	Colour digital LCD, high brightness
<b>PICTURE AREA</b>	5.7 " (Diagonal)
<b>RESOLUTION</b>	320 (L) x 240 (H) pixels.
<b>CONTRAST</b>	300:1
<b>BRIGHTNESS</b>	400 cd/m <sup>2</sup> .
<b>PRETREATMENT</b>	Anti-reflection and hard-coating (>2H).
<b>VISUAL ANGLE</b>	± 55 ° (L), ± 60° (H).
<b>SOLARIMETER</b>	Probe for measurement of solar radiation Range 150 ÷ 1200 W/mq; accuracy ± 3%
<b>AIR THERMOMETER</b>	Probe PT100 for measurement of air temperature Range -30 ÷ +80 °C; accuracy ± 1°C
<b>PHOTOVOLTAIC PANELS THERMOMETER</b>	Probe PT100 for measurement of photovoltaic panels' temperature Range -30 ÷ +120 °C; accuracy ± 1°C
<b>VOLTMETER DC CAT. III 1000V</b>	n° 3 inputs for simultaneous measurement of 3 groups of photovoltaic panels; full scale 1000 V DC; accuracy ± 1%
<b>AMPEROMETER DC</b>	n° 3 inputs for simultaneous measurement of 3 groups of photovoltaic panels; full scale 200 A DC; accuracy ± 1%
<b>VOLTMETER AC CAT VI 600 V</b>	n° 3 inputs for measurement of three-phase lines with or without neuter; full scale 600 V AC 50 Hz; accuracy ± 1%
<b>AMPEROMETER AC</b>	n° 3 inputs for measurement of power of three-phase lines full scale 200 A AC; accuracy ± 1%
<b>CALCULATION FUNCTIONS</b>	<u>PHOTOVOLTAIC GENERATOR</u> : available theoretical power based on solar radiation, actual generated power, panels' yield with automatic compensation of temperature coefficient of modules <u>INVERTER</u> : DC/AC conversion yield
<b>DATA - LOGGER</b>	Storage of record including: customer's details, plant's specifications, measures and test results
<b>SERIAL COMMUNICATION INTERFACES</b>	RS232 + USB to handle data logger through PC
<b>POWER SUPPLY</b>	internal: internal battery pack Li-Ion 4.5Ah, approx. 10 hours' autonomy from network: through external power supplier 220V CA – 50Hz – 115VA
<b>OPERATIONAL TEMPERATURE</b>	from 5°C to +40°C.
<b>MAX. ALTITUDE</b>	2000 mt.
<b>RELATIVE HUMIDITY</b>	80% for temperature up to 40 °C (with linear decrease to 50% AT 50 °C)
<b>STORAGE TEMPERATURE</b>	from -10°C to +60°C.
<b>BAG</b>	Professional suitcase for accessories
<b>SIZE</b>	360 x 304 x 194 mm
<b>WEIGHT</b>	3 Kg approx. (battery included)

## UT925 UNIT FOR REMOTE CONNECTION OF ATMOSPHERIC PROBES

<b>SERIAL COMMUNICATION INTERFACES</b>	RS-232 to transfer data in real time to the base units UT805 / UT905; the connection can be carried out through the options "CABLE RS-232" or "pairs of adapters RS-232 bluetooth" available upon request
<b>POWER SUPPLY</b>	internal: 4 standard batteries AA (Ni-MH rechargeable batteries can be used) approx. 10 hours' autonomy including power supply of bluetooth unit
<b>PROBE CONNECTION</b>	air-temperature probe module-temperature probe pyranometer probe
<b>OPERATIONAL TEMPERATURE</b>	from 5°C to +40°C.
<b>MAX. ALTITUDE</b>	2000 mt.
<b>RELATIVE HUMIDITY</b>	80% for temperature up to 40 °C (with linear decrease to 50% AT 50°C)
<b>STORAGE TEMPERATURE</b>	from -10°C to +60°C.
<b>SIZE</b>	85 x 60 x 150 mm
<b>WEIGHT</b>	400g approx. (battery included)



**BLUETOOTH ADAPTERS:**

IT IS SUGGESTED TO USE THE ADAPTERS  
EIKON mod. BLUEMAX 06

PRODUCT	STANDARD EQUIPMENT
<b>UT 805 Mono</b>	N° 1 SOLARIMETER N° 1 AIR-TEMPERATURE PROBE N° 1 MODULE-TEMPERATURE PROBE N° 1 AMPEROMETRIC CLAMP DC 600A N° 1 AMPEROMETRIC CLAMP AC 200A N° 2 PAIRS OF PROBES <b>PROTECTION AGAINST ELECTRIC SHOCKS</b> INPUTS VDC CAT II 1000V DOUBLE INSULATION INPUTS VAC CATIII 600V DOUBLE INSULATION POLLUTION LEVEL 2
<b>UT 905 Three</b>	N° 1 SOLARIMETER N° 1 AIR-TEMPERATURE PROBE N° 1 MODULE-TEMPERATURE PROBE N° 3 AMPEROMETRIC CLAMPS DC 1000A N° 3 AMPEROMETRIC CLAMPS AC 3000A N° 6 PAIRS OF PROBES <b>PROTECTION AGAINST ELECTRIC SHOCKS</b> INPUTS VDC CAT III 1000V DOUBLE INSULATION INPUTS VAC CAT IV 600V DOUBLE INSULATION POLLUTION LEVEL 2
<b>UT 925</b>	UNIT FOR REMOTE CONNECTION WITH PROBES (through CABLE or WIRELESS) <i>(cable and wireless excluded)</i>
<b>SOLARIMETER</b>	N° 1 PROBE FOR MEASUREMENT OF SOLAR RADIATION
<b>AIR THERMOMETER</b>	N° 1 PROBE PT100 FOR MEASUREMENT OF AIR TEMPERATURE
<b>PHOTOVOLTAIC PANELS THERMOMETER</b>	N° 1 PROBE PT100 FOR MEASUREMENT OF PHOTOVOLTAIC PANELS TEMPERATURE
<b>CLAMP DC 600A</b>	N° 1 AMPEROMETRIC CLAMP DC 600A
<b>CLAMP DC 1000A</b>	N° 1 AMPEROMETRIC CLAMP DC 1000A
<b>CLAMP DC 1400A</b>	N° 1 AMPEROMETRIC CLAMP AC 1400A
<b>CLAMP AC 200A</b>	N° 1 AMPEROMETRIC CLAMP AC 200A
<b>CLAMP AC 3000A</b>	N° 1 AMPEROMETRIC CLAMP AC 3000A
<b>KIT PROBE</b>	N° 1 PAIR OF PROBE
<b>KIT WIRELESS</b>	N° 1 PAIR OF ADAPTERS RS-232 BLUETOOTH EIKON – BLUEMAX 06 (ALREADY PROGRAMMED AND SET UP TO BE USED)