

The new E-RAY is a Digital Solarimeter with exclusive, state-of-the-art functions.

Microtronics enriches the "SOLAR Line" with the new model of digital solarimeter E-RAY, characterized by exclusive functions and innovative look.

From metrologic point of view, the new instrument has the same measuring system of the old one, made by a twin-reference cell in A-Si and C-Si, to offer the maximum compatibility with the spectral response of photovoltaic panels to be tested.

Moreover, it has an embedded RF interface at 868 MHz for wireless interfacing with the instrument E-SUN, to carry out the efficiency test of photovoltaic plants in real-time.

The main innovation is the presence of the embedded display, through which it's possible to read directly the numeric values of the following measured parameters: Solar Irradiance,



Modules Temperature, Environment Temperature, and, exclusive, the tilt (in degrees) respect the ground plane, which is very useful during the preparation of photovoltaic test. E-RAY gets the power from internal batteries, that may be recharged through external supply and thanks to the energy contribution from reference cells.



The big quantity of embedded flash memory, permits the use of E-RAY even as datalogger, for saving a long measuring period. Files generated in this way, may be downloaded to a PC, through USB port, and then they can be viewed thanks to the software E-SOLAR.