

TEACHING PANEL FOR NETWORK INJECTION



ref. TAE-RES

This worktable must be connected to a PV or wind voltage source

It is compatible with our SOL-200 solar panels and our EOLYS-500 wind power.
Entry voltage comprises between 50Vcc and 150Vcc.



This learning board, to be placed on a table, allows the study of the restitution of photovoltaic or wind energy on the national 230VAC 50Hz electricity network. You can choose between two types of operation:

- total restitution of the energy produced
- restitution of the energy not consumed only.

A screen print represents the different components.
The components are to be connected with safety cords.

TAE-RES is equipped with 2 mobile unfoldable arms allowing a 70° inclination and offering great stability.
Dimensions: 770 x 600 x 360mm (arms unfolded wheelbase).
Supplied with a set of 4mm safety cords.

PEDAGOGICAL OBJECTIVES

- Discover the various elements of a photovoltaic or wind turbine system.
- Learn and understand the safety elements present.
- Perform activities at different electrical dimensions.
- Analyze & interpret the results.
- Study the yield and incidence related to the panel positioning.
- Study the energy chain (production, utilization, energy behavior).
- Wire a photovoltaic or wind facility

TEACHING RESOURCES STUDENT & TEACHER

Composition of the learning board:

- 2 photovoltaic connectors for connecting the solar panels
- 1 surge protector
- 1 10A solar circuit breaker
- 1 solar switch to isolate the solar panel circuit
- 1 inverter that can be synchronized with the electrical network
- 1 disconnector to isolate the inverter during maintenance operations
- 3 energy meters
- 1 disconnector to isolate the panel from the electrical network
- 1 voltage controller
- 1 30mA two-pole differential circuit breaker
- 1 230VAC-750W 50Hz output on 4mm safety terminals