

TINA *Experimenter Box*

TINA *Experimenter Box* is a supplementary external hardware device for the TinaLab data acquisition plug-in card. Assembly and measurement of prototype circuits is a matter of minutes with the **TINA** *Experimenter Box* .

There are two ways of using it.

The *Experimenter Box* has a breadboard to ease the construction of prototype circuits. The required supply voltage (5V or 12V), the function generator and the available 16 measuring channels can be connected to the breadboard with wires.

Another application is when the printed circuit board to be tested is plugged into the standard 50 pin connector of the *Experimenter Box*. This special feature offers the advantage of high and fast reproducibility, which cannot be overpriced in educational applications. In addition, each test circuit can have an associated code. The digital I/O helps to recognize this code for **TINA**, which loads the formerly edited scheme of the circuit and shows it immediately on the screen of your IBM PC/XT/AT or compatible computer.

Another useful facility provided by the digital I/O is that you can control not only the *Experimenter Box* but also the circuits connected to it. This allows you to start transient processes, change circuit parameters, or simulate different faults.

It is recommended to assemble the prototype circuit first on the breadboard. Having executed the tests successfully, you can build the network on a printed circuit board while considering the pin assignment of the 50 pole connector on the *Experimenter Box*. After getting familiar with this user-friendly test interface it is rather easy to make and examine experimental circuits.

Optionally, there are three internal expansion card slots available for the *Experimenter Box*, offering new functions like current measurement, frequency and time base rating, DC conversion, diagnostics, etc.

Technical Specifications:

- ⊞ Number of measuring channels: 16
- ⊞ Channel indicators: 16 LEDs
- ⊞ Supply voltages: 5V, 12V
- ⊞ Supply indicators: 4 LEDs
- ⊞ Number of supply fuses: 4
- ⊞ Test circuit connector: standard 50 pin type
- ⊞ Test circuit identification number: 12 bits
- ⊞ Number of 62 pin internal expansion connectors: 3
- ⊞ Breadboard panel: 1800 holes

Designsoft Inc.
www.tina.com
info@tina.com
Tel: +36 (1) 269 12 06
Fax: +36 (1) 332 77 77