

**TP-3000A**



**ACCESS CONTROL TERMINAL**



**TIME RECORDERS, TIME CONTROL AND TIME MEASUREMENT**

# TP-3000A

## ACCESS CONTROL TERMINAL

TERMINAL DESIGNED FOR ACCESS CONTROL. SECURITY BECOMES ESSENTIAL AND BASIC IN ANY PLACE WHERE PEOPLE SHARE INFORMATION AND KNOWLEDGE WITH OTHERS (OFFICES, INDUSTRIES, PUBLIC AND PRIVATE ENCLOSURES, BUILDINGS, ETC.). DATA COLLECTION AND ITS SUBSEQUENT MANAGEMENT ALLOW FOR TRUSTWORTHY INFORMATION ON ALL PERSONNEL MOVEMENT.

### CARACTERISTICAS TÉCNICAS:

- ▣ 16-bit microcontroller.
- ▣ 4 Kbyte of internal RAM to microcontroller.
- ▣ 56 Kbytes of internal program ROM.
- ▣ 1024 Kbytes of FLASH data memory.
- ▣ Watchdog.
- ▣ 2 UARTS for communication with other peripheral units with RS232/RS485 outputs.
- ▣ Perpetual maintenance of stored data.
- ▣ Acoustic warning buzzer.
- ▣ One-relay output.
- ▣ External battery charger (does not include battery).
- ▣ Storage of approximately 23,000 punch registries for 9000 different card codes.
- ▣ Terminal functions can be configured from PC.
- ▣ Possibility of selecting authorized or unauthorized cards as well as in which terminal or terminals they can be operational.
- ▣ On-Line or Off-Line operation according to user's desire.
- ▣ Communication with PC via RS-232 interface (up to 50 m. and one Terminal) RS-485 (up to 1200 m. and 32 Terminals on line) or Ethernet TCP/IP 10/100 Mbps.
- ▣ Possibility of generating files in ASCII for links with other programs.

### Specifications

- ▣ Power: 220 v.  $\pm 15\%$ .
- ▣ Energy consumption: 3 w.
- ▣ Dimensions: 202 x 108 x 55 mm.
- ▣ Weight: 780 gr.
- ▣ Output relay contact capacity 10<sup>a</sup>/250v.
- ▣ Operating temperature: +5°C to +55°C.
- ▣ Steel casing.
- ▣ Humidity tolerance: from 5% to 90% (no condensation)

### Options

- ▣ Terminal with magnetic strip reader: ISO regulation, track 2.
- ▣ Terminal with bar code reader: code 39.
- ▣ Terminal with proximity reader: 125 KHz, 64 bits, Manchester codification, ISO cards. Maximum range between 8-9 cm.
- ▣ Power source (to continue operating for 4 hours without electrical power).
- ▣ Converter (RS-485 > RS-232)
- ▣ Network connection ETHERNET TCP/IP 10/100 Mbps.



**TIME RECORDERS, TIME CONTROL AND TIME MEASUREMENT**  
**[www.phuc.es](http://www.phuc.es)**  
**e-mail: [pablohuc@phuc.es](mailto:pablohuc@phuc.es)**