

TP-9017i



**Biometric Fingerprint Terminal
for
ATTENDANCE and ACCESS CONTROL**



TIME RECORDERS, TIME CONTROL AND TIME MEASUREMENT

TP-9017i

Biometric Fingerprint Terminal for ATTENDANCE and ACCESS CONTROL

BIOMETRIC PRESENCE AND ACCESS TERMINAL (REGISTRATION VIA DIGITAL FINGERPRINT READING). DESIGNED PRINCIPALLY AS A SECURITY TERMINAL IN ORDER TO AVOID POSSIBLE PUNCH INFRACTIONS. DATA CAPTURE AND SUBSEQUENT HANDLING ALLOWS FOR THE OBTENTION OF RELIABLE AND PRECISE INFORMATION CONCERNING THE COMINGS AND GOINGS OF PERSONNEL. THE CONTROL OF PRESENCE, INCIDENCES, EXTRA HOURS, ABSENTEEISM, AND DELAYS ARE FUNDAMENTAL DATA FOR THE ADEQUATE MANAGEMENT OF ANY COMPANY. IN ADDITION, THE **TP-9017i** CAN CARRY OUT THE FUNCTION OF AN ACCESS CONTROL TERMINAL FOR AUTHORIZED PERSONNEL. ITS SOLID STATE CONSTRUCTION AND MODERN DESIGN ALLOW FOR ITS USE BOTH IN OFFICE ENVIRONMENTS AND IN LESS FAVORABLE INDUSTRIAL LOCATIONS.

TECHNICAL CHARACTERISTICS:

- ▣ 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.
- ▣ High luminosity display: 2 x 16 with backlighting and 5 mm. digits.
- ▣ Keyboard with 10 numeric keys, ESCAPE and INTRO keys, 4 function keys (BALANCE, LAST PUNCH, INCIDENCE, and MANUAL PUNCH), and key for registering new fingerprints.
- ▣ Perpetual maintenance of stored data.
- ▣ Automatic daylight savings changes.
- ▣ 2 relays capable of activating features such as gates, doors, stiles, etc. and equipped with direction distinction function called "Anti-passback". ON/OFF activation from PC) as well as bells and sirens.
- ▣ Acoustic warning buzzer.
- ▣ Fingerprint reader with capacity for 3000 fingerprints (1500 users with 2 fingerprints per user).
- ▣ Optic sensor for recognizing fingerprints.
- ▣ Identification punches, without needing a card. Simply position fingertips over sensor.
- ▣ Response velocity: under 2 seconds (with 3000 fingerprints)
- ▣ Access to supervisor mode for introducing new fingerprints is only possible using a supervisor PIN, the supervisor's fingerprints, or a combination of the supervisor's PIN and fingerprints.
- ▣ Storage of up to 23,000 punch registries for 9000 different card codes or up to approximately 5000 production registries.
- ▣ Possibility of punching by keyboard, without fingerprints, by introducing the user's password or user's password and supervisor PIN.
- ▣ On-Line or Off-Line operation according to user's desire.
- ▣ Possibility of having display show the name of the employee punching in (maximum 9000 names).
- ▣ Possibility of sending individualized or card group messages (warning or informative) to the punch terminal, with up to 1000 different messages possible.
- ▣ Consultation key for accumulated balance.
- ▣ Consultation of last punch.
- ▣ 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.
- ▣ Possibility of communicating via modem (analog GSM).

Specifications

- ▣ Power: 230 v. ±10%.
- ▣ Energy consumption: 6 w. (TP9017iR - 7 W).
- ▣ Dimensions: 210 x 116 x 56 mm.
- ▣ Dimensions of proximity model: 230 x 150 x 67 mm.
- ▣ Weight: 1.5 Kg.
- ▣ Steel casing.
- ▣ Output relay contact capacity 10³/250v.
- ▣ Operating temperature: +5°C to +55°C.
- ▣ Humidity tolerance: from 5% to 90% (no condensation)

Options

- ▣ Converter (RS-485 > RS-232)
- ▣ External 56K V.90 modem.
- ▣ GSM modem.
- ▣ Network connection ETHERNET TCP/IP 10/100 Mbps.



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