



916 EnTRAX

Time Recording & Access Control System



EnTRAX is the entry level family of terminals integrating keyboard and display, designed for simple Time and Attendance applications but with a special focus for Access Control applications too.

HARDWARE PERFORMANCES:

- 12 key numerical backlit keypad allows **PIN checks** in access control applications.
- The **on-board clock** and the **16 KB memory** allows the terminal to memorize tables for access control applications (valid cards or black lists), and allow it to record transactions (date, time, user code, direction and casual) and maintain an events history file.
- The internal battery can power the terminal for several hours in the event of a mains blackout.

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OPERATION PERFORMANCES:

- The transaction can require just a PIN, just a user card, or both.
- **Off-line autonomous operation:** either there is no connection to a PC, or the PC is connected only periodically to download transaction records and update tables.
- **On-line functioning** connected to a PC with the appropriate software installed: the terminal transmits the user card code to the host via the RS485 or RS232 port. It will go automatically into off-line mode if the host does not respond to messages within a user-defined time limit.
- **Moves back and forth between on-line and off-line modes** while maintaining console functionality and background communications transparency.
- **Time zones control** settable for each day of the week. Every user code can be associated to 8 different time zones. Each time zone is an interval which is associated with any mix of days of the week and with generic holidays. Up to 40 holidays can be defined in a separate file.
- Can be configured for **common code validation** (to be valid a card must have a particular code in a particular position).
- The PIN validation can be restricted to certain time zones. This makes it possible to increase security outside office hours and during week-ends and holidays.
- Cards can be validated or invalidated from the keypad, by means of read operation, or from the host computer.
- The terminal can be configured to switch itself off after X minutes of inactivity. Operations are resumed by pressing the "return" key. In this way its autonomy can be extended to several days.
- 1-2 figure casual codes can be associated to each transaction.
- In attendance recording applications the Entry or Exit status of the transaction is either determined by the direction of the swipe, or by the direction indicated on the display in relation to the current time zone. The status displayed can be inverted using a specific key.



Memory management

- The main memory is shared between the valid codes table and the transactions and events log buffer. Allocation is made in steps of 256 byte chunks; some of the several possible capacity combinations are shown in the tables below:

Cards with planned format, 4-digit codes, with PIN

| | |
|------------|-------------------|
| 200 codes | 4600 transactions |
| 1000 codes | 3800 transactions |

Cards with planned format, 4-digit codes, no PIN

| | |
|------------|-------------------|
| 200 codes | 4800 transactions |
| 1000 codes | 4000 transactions |

Cards with free format, with PIN

| | |
|------------|-------------------|
| 200 codes | 3300 transactions |
| 1000 codes | 2000 transactions |

Cards with free format, no PIN

| | |
|------------|-------------------|
| 200 codes | 3500 transactions |
| 1000 codes | 2400 transactions |

NOTE:

- By **“planned format cards”** we mean cards with a codified track which you are familiar with and where a certain number of figures (2-12) are used as a personal ID code for the card user.
- By **“free format cards”** we mean cards which the user already possesses (cashpoint card, credit card, other ID cards, etc.) where the codified track is not known or is not useful. These cards can anyway be used for access /control attendance recording transactions while maintaining the security and privacy of each individual code, which is memorized by the terminal in a compressed format obtained using a non-reversible algorithm.

OPTIONAL:

- The optional **IRDA port** allows you to up and download data using a PocketPC with the appropriate software.
- Second reader** option can be requested where IRDA is not used. Optional external **anti-tamper switch**.

TECHNICAL INFORMATION

- Keypad:** membrane type, dust and splash proof; 12 keys backlit on aluminium version only.
- Display:** high visibility LED, 8 alphanumeric characters with horizontal scrolling.
- Internal readers:**
 - aluminium version** - track 2 ISO magnetic, I.R. barcode (C39 I25)
 - plastic version** - proximity 125 KHz EM 4102 comp., ISO14443A/B + ISO15693, HID 125 KHz.
- Beeper:** magnetic, 2 tones, software driven.
- Communication port:** RS485 version with NET 92 protocol. RS232 version with standard ASCII transmission.
- IrDa interface (Infrared):** option, for up and downloading of files from PocketPC.
- Input/Output ports:**
 - Input:** 2 sensors for the on/off line (one is taken up by the anti-tamper sensor if present).
 - Output:** 1 with relay normally open 2A @ 30 Vdc.
- Memory:** 16KB EEPROM, 32KB EPROM.
- Power supply:** 9 to 15 Vdc, 100mA max.
- Backup battery:** ensures up to 4 hours of continuous functioning. Can vary with versions.
- Working temperature:** -20°C to +50°C – IP65.
- Storage temperature:** -20°C to 70°C.
- Humidity:** 0 to 95% non condensing (barcode version).
- Casing:** anodized aluminium. IP65 (except for barcode version). Abs for plastic version.
- Dimensions:**
 - aluminium - 87x130x32 mm (W x H x D)
 - plastic - 102x149x33 mm (outline).
- Weight:** 300 g aluminium - 200g plastic.

ACCESSORIES

| | | |
|------------|-----------|--|
| 980.002.00 | PS600 | Power supply adapter: 220 Vac to 12 Vdc @ 600 mA |
| 904.104.12 | ReadHead | ISO TK2 magnetic card swipe reader, aluminium casing, without LEDs, 250 cm cable outdoor use |
| 904.201.14 | RFID2 | ISO14443A/B + ISO15693 RFID reader - outdoor use |
| 904.200.17 | RFID2 | RFID 125 KHz EM H4102 compatible reader - outdoor use |
| 909.001.20 | Telerelay | Coded relay module |
| 500.916.40 | Optional | Antitamper sensor for EnTRAX, 3 m cable |
| 903.001.00 | Optional | IrDA Module |