

## EXPRESS Time Recorder

Simple to setup and operate, this Time and Attendance Terminal provides all the basic Time Recorder functionality in an attractive and cost-efficient package.

The TR510 is extremely easy to use. The User only needs to push the appropriate button (IN or OUT) and read his/her ID-card to register. A new database record is created every time an ID-card is read. Each record contains the date and time of its creation, the ID-code of the User card that was used, and the related event (IN or OUT). All records are kept in the TR510's highly reliable internal database memory that is not dependent on any kind of external power.

The accumulated data is uploaded into the PC using the *TR510 Control Center* for Windows software. This software is also used to setup the TR510's functioning parameters (Settings) and comes free with every TR510.

Extremely versatile, the TR510 Terminal can be used as either a wall-mount or as a desktop device. An excellent viewing angle is provided in both orientations by rotating the unit 180 degrees.

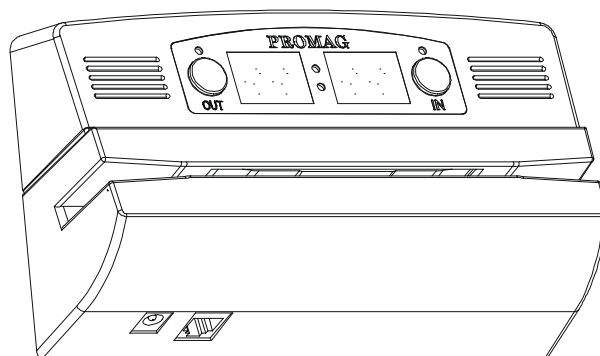
### Ordering information:

TR510M	Magnetic Card Reader version
TR510R	RFID Card Reader version
TR510B	Barcode Card Reader version (visible red)
TR510F	Barcode Card Reader version (infrared)

### Accessories:

CON485 Smart RS232→RS485 converter\*

*\*Required when using the RS485 interface of the TR510*



### Features:

- Two buttons for clocking IN and OUT
- Bright, high-contrast LED display shows time of day, last four digits of the User Card's ID-code, and numerous error messages
- Built-in Magnetic Card, RFID, or Barcode reader
- Approximately 8200 records storage capacity, advanced memory protection and recovery mechanism for increased reliability
- Dual RS232 and RS485 interface for single- or multi-terminal communications
- Convenient Machine Number setup feature using IN and OUT buttons simplifies multi-terminal installation process
- Built-in ring relay for external ring (bell) control. Daily bell schedule of up to 32 different entries
- Wall-mount (default) or desktop operation with excellent viewing angle in both positions
- Firmware Management Mode (FMM) for easy internal firmware upgrades
- Built-in self-test for quick hardware check-ups
- Several exterior finishes available (contact Giga-TMS for details)
- *TR510 Control Center* software included with every Terminal

### Specifications:

Display:	4 x 7-segment LED	Bell table:	Up to 32 entries
Magnetic Card Reader:	ISO Track 2, 75 BPI	Bell relay:	Max 1A, 12V
RFID Card Reader:	125KHz, ASK, 64 bits, Manchester	Mounting:	Wall-mount or desktop
RFID Reading Distance:	8 cm min	Power supply:	DC 9V, 500mA
Barcode Card Reader:	Visible or IR, Code39 (numerical)	Operating Temperature:	0-55° C
Database capacity:	App. 8200 records	Operating Rel. Humidity:	10-90%
Interface:	Dual RS232 + RS485	Dimensions:	170(L) x 99(W) x 48(H) mm

✓ We welcome OEM inquiries  
✓ Custom device programming is available  
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