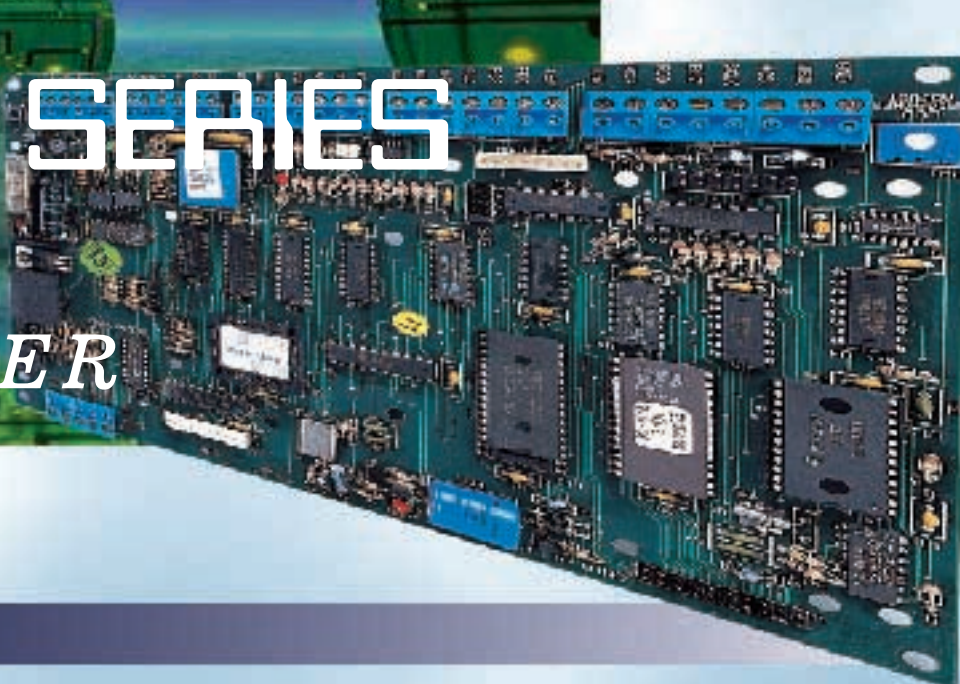


EL2200 SERIES

ACCESS CONTROLLER



SUMMARY

In EL2200, ELID brings you a powerful yet affordable Card Access System with many advanced features. EL2200 Access Controller is one of a growing range of Electronic Identification Equipment produced by ELID, whose commitment is to provide "One Card Solution" to its customers. ELID will continue to introduce more products which are compatible at the ID card level, network level, and application software level to establish an upgrading path whereby its customers can continue to expand their installations and applications using ONE card instead of multiple cards.

EL2200 is a versatile Card Access Controller, developed as a successor to the widely popular EL2000 model. It is available in 2 packaging - plastic and metal casing. The plastic version is suitable for mounting on walls at eye level, and blends well with office furnishing. The metal casing version is particularly suited for mounting above ceiling. Options and accessories allow the same controller to be used for either 1-door or 2-door controller, lift (elevator) control to a maximum of 64 floors, and car-park barrier control (with anti-passback). The basic model has 32KB of memory, but the extended model has 128KB of memory.

INNOVATIVE FEATURES

■ Excellent Performance

Each EL2200 is designed to be connected to the same door, equipping with both entry and exit readers. If only entry reader is required, EL2200 can be used to control 2 doors. EL2200 is equipped with a large memory and a powerful embedded MPU to store and process all information completely within itself. Therefore, even when communication to PC fails, the door will continue to operate without any degradation of performance, and all programming commands can still be keyed in, and events logged. Furthermore, because of the high level of local intelligence, processing time for a card is guaranteed to be less than 1 second.

■ Multiple Mode Of Operation

EL2200 can operate in PIN mode, CARD mode, or CARD+PIN mode. In CARD+PIN mode, the PIN can be generated by an internal algorithm, or chosen by the user. A card may be set to be disabled if wrong PIN is repeatedly entered. All modes of operation are subjected to time zone constraints. 10 time zones are provided, each time zone has an 8-day schedule (7 weekdays + 1 holiday) with 2 start/stop periods per day. Doors can be programmed to be unlocked automatically by timers. Changing from CARD to CARD+PIN mode can also be automatically activated by timers. Up to 20 holidays can be pre-programmed into the controller, and a separate access routine set for holidays.

■ Wide Range Of Readers

EL2200 is designed to work with a wide choice of readers without hardware modifications. This includes Magnetic Readers, Bar-code Readers, Proximity Readers, Contact and Contactless Smart Card Readers, Touch Memory... For each type of reader, users can select different data formats. For example, in Magnetic Reader Mode, there are 3 data formats that can be selected:- ELID, ABA and F-30. Setting up of reader type and choice of data format is by software.

■ Interactive Reader Display

EL2200 can work with standard matrix keypad and readers with LED displays. It can also work with ELID S series readers. These readers are equipped with 4-digit LED display to improve feedback to card users. For example, if the reader is waiting for PIN to be keyed in, the display will show "PIN", and as each digit of the PIN code is keyed in, a symbol "@_" is displayed. If a card is not allowed, the display indicates the type of error, so that users are informed why his card is disallowed, whether it is because the card is not programmed in, or time zone is invalid, or card customer code is wrong, or card cannot be read. As the reader is separate from the EL2200 Controller, and does not contain terminals or parts that can cause security breach, the system security is not compromised.

■ Programming Ease

EL2200 has a LCD display with ability to display 2x20 alphanumeric characters, and 16 programming keys, allowing easy interaction with the programmer. All initial settings are software programmable. Parameters are stored in battery-backed RAM and also in non-volatile EEPROM. All user programmable commands may be entered through the keypad guided by clear instructions in English. During normal operation, the LCD will show the present status of controller - e.g. "Door Open Alarm", "Invalid Time Zone..."

■ Large Database

Depending on the model and set-up selection, EL2200 can store from 1,600 to 12,800 user ID Card numbers. For secure applications, cards can be assigned to 2 separate groups, and access is only granted when 2 cards from different groups are successively presented. Apart from normal User ID Cards, it also distinguishes Special Cards (which can perform arming / disarming of inputs and activation of outputs), Engineering Cards (for access into set-up commands) and Master Cards (for access into programming mode). It distinguishes over 20 different types of transactions, and records each transaction with 'date', 'time', 'card number' and 'transaction code'. Depending on program setting, it can store 1,000 to 4,000 transactions. These transactions can be retrieved by a PC or directly printed out using commands provided on the controller.

■ Versatile Inputs And Outputs

EL2200 comes with 2 non-supervised inputs and 6 open-collector outputs. An optional interface (EA8) provides opto-isolation to the inputs and relays for the outputs. The inputs may be used for monitoring status or alarm signals. The outputs may be Timer Controlled or Event Controlled. In the Timer Controlled mode, the outputs can be activated by an 8-day time zone. In the Event Controlled mode, the user can decide what event or combination of events should activate a specific output. Any of the 22 events recognizable by EL2200 can be used to set the formula.

■ Flexible Networking

EL2200 is equipped with a Multi-drop Communication Bus, and up to 16 units can be connected together with 4 wires. Address setting on each controller is then used to distinguish one controller from another. This communication bus is standard to all ELID equipment, and so a wide range of other ELID equipment can be inter-connected together to form networks of different sizes. ELID supplies communicators that can link up to 1,024 readers with a PC or group of PCs. ELID also has a wide range of standard software, such as EsowIN (Windows-based single User Access Manager), EsowNET (Integrated Security Manager under LAN environment), OnTime (Time Attendance Manager) to cater for different applications.

ORDERING INFORMATION TECHNICAL SPECIFICATIONS

Models

- EL-2200-001 - Controller with 32KB memory, supplied in a plastic casing
- EL-2205-020 - Controller with LCD & Keypad but without casing

Options

- EA-2201-001 - Memory extension option (to 128KB) to extend to 12,800 users
- EA-2207-001 - EA2207 Extension Board c/w Accessories

Accessories

- EP-0023-000 - Power Supply, 12V/1.3A Switching
- EP-0033-001 - Charger, 12V/3.0A with Low Volt Cut-Off
- EP-0036-001 - 12V/3A Switching Power Supply, suitable for 110-240 VAC operation

Related Products Based On EL2200

- EL-2205-L16 - Lift Controller with output relays for controlling 16 floors
- EL-2205-L32 - Lift Controller with output relays for controlling 32 floors
- EL-2205-L48 - Lift Controller with output relays for controlling 48 floors
- EL-2205-L64 - Lift Controller with output relays for controlling 64 floors
- EB-1205-001 - Car Park Controller for controlling one entry and one exit

Compatible Readers And Keypads

- Keypad - ER-0003-001, ER-0006-001
- Magnetic - With Integral Keypad - ER-0005-008
- Proximity - Without Keypad - ER-0023-002, ER-0027-002, ER-0029-002
- Bar Code - Without Keypad - ER-0035-002
- Bar Code - With Integral Keypad - ER-0036-001
- Smart Card - Without Keypad - ER-0043-001, ER-0044-002, ER-0046-002
- Smart Card - With Integral Keypad - ER-0046-001
- Contactless Smart Card - Without Keypad - ER-0680-001

CPU

- 8-bit HCMOS running at 4.9 Mhz

Power Consumption

- 90mA excluding reader

Memory

- 32KB SRAM for model EL2200
- 128KB SRAM for model EL2201 with on-board back-up battery
- 512B EEPROM

Dimensions

- EL-2200-001: 212(H) x 155(W) x 55(D)
- EL-2205-020: 208(H) x 154(W) x 30(D)



EL-2200-001

EL-2205-020

EA-2207-001