Field Devices

In Access Control, Time & Attendance and Security systems, the different environmental conditions of use and different functional requirements mean that adaptability and flexibility are key features of the respective devices for identification and interfacing with the environment. Zucchetti Axess meets these requirements with the modular, integrated solution of Field Devices.

INTERACTION WITH USERS AND THE ENVIRONMENT

The job of the Field Devices is to enable the system to interact with the environment . In practice, they are the physical interfaces through which the system detects statuses, identifies users, and controls equipment. The Field Devices are a series of devices with a high degree of modularity, which enables them to be adapted to a wide range of requirements dictated by applications (access control only, access control + time & attendance, intrusion detection, etc.), the environment (indoor and outdoor installations, modern and historic buildings, etc.), identification technologies (magnetic cards, proximity cards, smart cards and biometric measurements) and detection technologies (volumetric sensors, perimeter sensors, etc.).
Data bus and power supply connect the Filed Devices to the Field Processors, the powerful, innovative multi-application and multi-function field controllers by Zucchetti Axess.

WIDE RANGE OF SUPPORTED TECHNOLOGIES

The Field Device range includes:

- Card readers
- Card readers with display
- Fingerprint readers
- Keypads
- Digital or analogue input/output interface modules
- Standard interfaces for connecting third-party peripherals

which can be physically and logically combined in any permutation to deliver the most appropriate solution to any requirement of Time & Attendance, Access Control or Intrusion Detection.
Card readers are available for all the most commonly used identification technologies:

- barcode,
- magnetic strip,
- EM4102® 125 KHz,
- HID®, I-Class,
- HID® 125KHz,
- ISO 14443/A(Mifare®) and B,
- ISO 15693,
- Legic®

The versions with display, each with 2 lines of 16 characters, normally show the system date and time. In the event of functional or technical anomalies, they display warning messages and, at the time of stamping, the respective date and time and the name of the card-holder.
In bi-directional versions, the direction of transit, based on the side of the card that is introduced, can be configured by means of the application software XAtlas.

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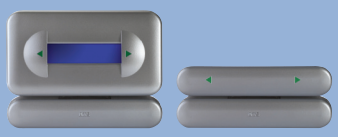
Field Devices
ZUCCHETTI AXESS



FD-RA0x - Bi-directional magnetic card reader
Reads track 2 on magnetic cards to ISO 7812.

FD-R: Mono or bi-directional proximity card readers
The readers are available either without a display (FD-Rx01) or with a 2-line backlit LCD with 16 characters per line (FD-Rx02).
The following reading technologies are available:

FD-RB0y: Mifare reader®: normally reads the unique serial number of the card (UID) or can be programmed to read the identification code of the user from a block of card memory.

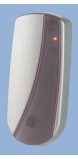
FD-RC0y: HID reader® 125 KHz: reads all standard format cards (Wiegand 26, 37 and 40 bit) and Corporate 1000.

FD-RD0y: EM4102 reader (125 KHz Unique): reads 125 KHz cards with EM4102 64-bit format (10 numeric characters).

FD-RE0y: Legic reader®: normally reads the unique serial number of the card (UID) or can be programmed to read the identification code of the user from a block of card memory.

FD-KA01 - Alphanumeric/function keyboard
Used in conjunction with or as an alternative to card reading devices to select control functions, introduce PINs or introduce auto-causation codes for presence detection. In Intrusion Detection security systems, it can be used to activate/de-activate the system or portions of it.

FD – Readers with graphic display, keyboard and digital i/o.
The Field Devices of the FD-X family are field modules that integrate in one device only a proximity card reader, a graphic display, a keyboard and some digital inputs/outputs.
They are all equipped with a large, bright display that clearly indicates: time, transaction type if configured, direction and result of the transaction (the latter is also indicated by means of an audible signal). Different reading technologies of proximity cards are available:
FD-XB0y: with Mifare® integrated reader;
FD-XC0y: with HID® integrated reader;
FD-XD0y: with EM4102 (125 KHz Unique) integrated reader;
FD-XE0y: with Legic® Advant integrated reader;
FD-XF0y: with HID® I-Class integrated reader.
Barcode, magnetic stripe and biometric readers, if any, are fixed to the underside of the terminal by means of a bracket.
The keypad is made up of 6 membrane function keys (FDXx01) or of 10 numeric keys (FDXx02).



RFID/2 - Readers of proximity cards (tropicalised)
RFID/2s are readers for generic purposes and read/write modules which can be used in all automatic identification applications. On the buffered versions with Wiegand and Magstripe interface (Clockdata), the length of the connection can be up to 100m. With a bi-directional RS232 connection (or TTL), they allow for complete read/write management of multi-segment applications and multi-applications.

Finger Box – biometric reader
FingerBox is a biometric device that uses the most advanced biometric technology and the most reliable capacitive sensor available on the market. It can also fit an optic sensor. FingerBox can manage up to 9.500 templates and can operate in identification mode (1:N) or verification mode (1:1). In verification mode, the biometric templates can be stored both on RF cards and in the memory of the controller/terminal to which it is connected.

FD-DA0x - Module 8 Input/Output
The FD-DA0x module is capable of acquiring the status of sensors and/or contacts and managing electric locks and/or turnstiles or signalling devices such as sirens, lamps, etc.. The 8 available channels can be used in the following configurations:
- 8 digital inputs (on/off contact)
- 4 digital inputs and 4 balanced inputs
- 4 digital inputs and 4 outputs
- 4 balanced inputs and 4 outputs

In supervised contact acquisition mode (for Intrusion Detection and access control), it can acquire 5 possible states (normal, alarm, tamper, cutting, short).

FD-WA0x - Serial and Wiegand interface module
The FD-WA0x is a module designed for interfacing the Field Processors with external devices by means of RS232 or RS485 or Wiegand serial connections. With RS232 or RS485, it is capable of operating at programmable speeds of between 300 baud and 115 Kbaud and managing full-duplex protocols in RS232.
If used for connecting third-party readers or other devices with Wiegand interface, it can manage up to three signalling devices (LED OK, LED KO, Buzzer).