

# Field Processors

## Field Processors



### SYSTEM RELIABILITY: ON-LINE WITH OR WITHOUT SERVER

The integrated Access Control and Security Solutions designed by Zucchetti Axess are reliable for two main reasons:

- the high operational autonomy of the individual hardware and software elements of which they are made up,
- the distributed intelligence architecture performed by the Field Processors.

All controls applied to user authorisations, anti pass-back and reactions to events and alarms, are performed in server-independent mode thanks to the peer-to-peer communication capability of the Field Processors.

Peer-to-peer communication refers to the ability of a device to interact with other devices, without needing a higher level of hierarchy to co-ordinate activities. This ability makes it possible to deliver two key functions for a security system: multi-terminal checks (anti pass-back, minimum and maximum number of people present in an area, maximum dwell time in an area, etc.) and reactions to alarms (activation of sirens or lamps, lock/unlock of areas, emergency opening, etc.). The ability of Field Processors to communicate P2P also offers major advantages in Time & Attendance systems: the possibility of safeguarding stamping records by saving them on more than one Field Processor, the possibility of controlling logical sequences of stamping (accesses => presences => canteen), and control of minimum working and rest hours, to give a few examples.

The distinguishing feature of Zucchetti Axess' integrated Access Control and Security solutions is the total operational autonomy of the field processes in server-independent mode. This key characteristic is obtained by means of Field Processors, i.e. powerful and reliable, multi-functional devices designed for use in all applications where excellent reaction times and operational continuity are fundamental requirements.



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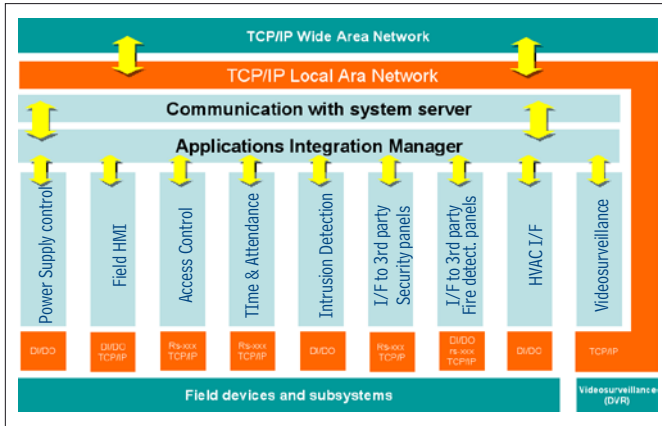
### MULTI-APPLICATION INTERACTION

The calculation power of the Field Processors makes it possible to condense into a single device the typical functions of the different installations that normally make up Access Control, Security and Time & Attendance systems; but more importantly, Field Processors are capable of enabling these applications to interact with others (Video Surveillance, Fire Detection, HVAC, etc.) in a fully integrated and interoperable manner.

# Field Processors ZUCCHETTI AXESS



Here again, P2P communication makes it possible to create a highly reliable, server-independent system. For example, a Field Processor which detects a break-in at a door can send a direct command to the video surveillance system to automatically focus a PTZ camera on it; conversely, if a motion alarm is triggered by a camera, the system can react by locking all the access doors to the area.



## PERFORMANCE INDEPENDENT OF SYSTEM SIZE

Field Processors always ensure excellent response times, regardless of the number of terminals managed by the system.

In a normal, centralised, on-line system, performance declines as the number of access channels to be controlled increases, because the full burden of managing multi-terminal controls and the correlation of alarms with reactions falls to the server. Each Field Processor, however, has charge of a definite number of devices and sub-systems. If the system expands, a sufficient number of Field Processors can be added to ensure that performance is kept at the highest level.



## FIELD DEVICES

The job of Field Devices is to enable the Field Processors to interact with the “environment”. In practice, they are the physical interfaces through which the system detects statuses, identifies users, and controls equipment. Field Processors can therefore manage field processes by means of 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.).

PARAMETER	FIELD MANAGER	XPOINT-TOUCH
<b>DIMENSIONS</b>	155x85x55mm (9 DIN units)	130x250x43mm
<b>POWER SUPPLY</b>	From 8VDC to 14VDC Power-Over-Ethernet (optional plug module) From 2W (CPU 10%) to 4W (CPU 100%) 500mA max. (@8V)	From 8VDC to 50VDC Power-Over-Ethernet From 2W (CPU 10%, min backlight) to 8W (CPU 100%, max backlight, internal battery in charge) 1000mA max. (@8V)
<b>OPERATING TEMPERATURE</b>	0 - 40°C	0 - 40°C
<b>RELATIVE HUMIDITY</b>	Up to 95% without condensation	Up to 95% without condensation
<b>PROTECTION CLASS</b>	n/a	IP55
<b>PROCESSOR</b>	Cortex A8 (AM3517) @ 600MHz	Cortex A8 (AM3517) @ 600MHz
<b>MAIN MEMORY</b>	256Mbyte DRAM	256Mbyte DRAM
<b>STORAGE MEMORY</b>	1Gbyte SD (removable)	1Gbyte SD (removable)
<b>COMMUNICATIONS INTERFACES</b>	Fast Ethernet 10/100 BaseT 2 RS485 serial bus (FD-BUS/A e FD-BUS/B) Optically isolated RS485 serial bus (FD-BUS B) RS232 serial port (COM1) 2x USB host  Anti-tampering alarm (can be set as optical or dry contact switch via jumper) Power supply status monitoring Jumpers (5) for Power Out from FD-BUS/A to FD-BUS/B	Fast Ethernet 10/100 BaseT RS485 serial bus (FD-BUS A)  RS232 serial port (COM1) 2x USB host #3 reader ports (Internal RF-ID reader, External reader, FingerBox) Anti-tampering alarm (optical)  Power supply status monitoring
<b>INPUT-OUTPUT INTERFACES</b>		#2 optocoupled inputs & dry contacts via jumpers #2 relay outputs (1A 30V relays)
<b>USER INTERFACES</b>	3 LEDs: yellow, green and red indicating the status of the device and of the FD-BUS communications	800x480 TFT LED display (256Kcolors) Audio through internal speaker (1WRMS) Internal microphone