

AX300

integrated access control & environmental monitoring solution—safeguard equipment and systems 24/7/365



The feature-rich AX300 controller provides true RFID access control security, intrusion, environmental monitoring and remote site monitoring within a single, wall-mount, box solution.

Each AX300 has an advanced integrated monitored power supply and battery charger for up to four locking devices, six smart sensors and two readers. The two readers can be configured as 'in & out' readers for a single door or as two 'in' readers for two independent doors.



The high-speed communication utilises industry standard TCP/IP and UDP for near real-time monitoring and control over local and wide area networks. The 3rd generation IP drivers minimise the amount of data making it ideal to run over existing LAN/WAN networks with limited bandwidth, even in large scale solutions with hundreds of sites.

All data is stored and processed locally to ensure continuous operation even if the network is unavailable. A wide variety of readers are supported including AX, Mifare, DESFire, HID, Felica, Hitag, magstripe, fingerprint, Tag-it, EM4x series with pincode option from 3 to 7 digits, user selectable.

Controllers can be added to the network using the plug and play software or using the built-in keypad and display to minimise installation time.

The high-end controller is, due to its single box solution, quick and easy to install with no need for external power supply or input/output modules. A 7 Ampere 12 volt battery (optional), provides emergency back-up in case of mains failure with central reporting of the fault. An automatic cut-out and conditioner ensures the maximum lifetime of the battery. The electronic fuses are processor-controlled and re-instated automatically with clear fault indication. A suite of diagnostics are built-in to aid the installer and minimise down-time.

The front panel LCD display and buttons allow the installer basic configuration of the controller, alleviating the need to take a laptop on-site. The LCD display also provides instant 'at a glance' system status.

The programmable door mode settings allow the security level to be changed at preset times to automatically open, normal mode, high security or buddy (2 cardholders required).

The IP-based controller supports 4,000 cardholders, 128 time zones and 4,000 transactions. This is expandable to 12,000 / 32,000 cardholders with 256 time zones and 8,000 transactions stored for larger systems.

Applications

Building access control, provides easy installation and servicing, in one wall-mounted unit. **Environmental monitoring,** using the 'plug and play' sensors for alarm and pre-alarm of environmental changes.



Smart Sensor Ports

The AX300 provides 6 ports for any combination of addon sensors. This provides additional monitoring for example, light, temperature, flood, mains power and other critical conditions. This ensures monitoring of the building and equipment 24/7. Faults and alarms can be reported centrally, emailed, SNMP or directly to an ARC (alarm receiving centre).



Sensors provide advanced warning with low-alarm, high alarm, pre-alarm and rate of change alarm and provide analogue status information. Each sensor can be configured centrally to set, for example, high temperature, low temperature etc and how often the data is reported. To minimise network traffic sensors can be configured to read frequently but only report based on an exception condition.

All sensors have been designed to be plug and play and can be connected in any configuration or permutation to the input ports.

Integrated Access Control for Local and Remote Site Monitoring **AX Software AX Enterprise Software: AX Web Client** Incorporating Web Server. Support 99 Clients AX200 / CMAX Server configuration and support for Traffic Light Overview Console 4,096 sites. Alarm Handling Standard software **Graphical Maps** supplied for configuration **Exception Reports** and single user operation Selected Live Transactions support for up to 256 LAN Photo ID AX200 / AX300 / i-Box units per system IP Camera Association Password Protected WAN Sentinel+ Alarm Option Door Control - Open, Receiving Centre Close, Deadlock, High (ARC) for supervised Security response Plant Control Muster / fire roll-call **AX Dual Redundant Option** Occupancy (Who's IN) With full automatic changeover Alarm Triggers of server in case of failure ActiveX SDK Option LAN /WAN/VPN ETHERNET NETWORK, 256 AX300 PER SIT SNMP, Email for 3rd party integration Additional Interfaces / Plug-ins Senstar – Perimeter • SNMP Manager Milestone - CCTV Custom reports - Crystal Cliq - Key management security Inovonics Wireless security & Pinpoint – Staff protection Morpho - biometrics Interlock – unlimited, environmental Inovonics – Wireless Mifare DESFire encoding nested monitoring solutions Optex – Infrared wireless · Third party database **Dual redundant** Plug and Play Sensors Environmental, Intrusion, HVAC Monitoring and Control Any combination of up to 6 sensors per AX300 controller to configure your own unique solution sensors supplied with fixing kit and cable Mix & Match any Sensor Combination IC-TS IC-DPS IC-AMP-100 Temperature sensor Dust particle sensor Light level & door contact sensor Clamp on amperage meter sensor IC-INT-P IC-HM IC-SD IC-IO Temperature & humidity sensor Smoke & temperature detector Intrusion / movement PIR Inputs/output module 2 inputs - 1 output IC-TS-DC IC-PRT IC-AI IC-IO-8 Temperature & door contact sensor Pressure/Temperature sensor Intruder alarm interface Inputs/output module 8 inputs - 8 outputs IC-FT IC-INT-DC IC-MI IC-FEX Fan Speed and Temperature Sensor Door / panel position sensor Mains present sensor FireTecPro interface IC-GA IC-LQT IC-INT-V IC-PDU General 0-5volt analogue interface Liquid Flow and Temperature Sensor Vibration / shock sensor 2-12 Way Intelligent PDU IC-FS IC-DPS-E IC-PIR Flood sensor with 5m sensing Fixed Temp and/ Fan Fail Sensor Enhanced Particle sensor PIR movement sensor cable AX300 including on-board, monitored, power supply **IP Camera Integration** 105-330 AX300 controller 105-323 Battery 12V 7Ah (optional) · Live view Data stream



Support for non AX Readers including HID, 125 Khz, 13.56 Mhz including biometrics.

Wiegand (8 to 50 bit programmable)

Auxiliary I/O

IC-ASB Sounder/ beacon module





- Outputs
 2 x Programmable volt-free relays
 1 x Pulsed output for automatic doors / gates
 1 x Pulsed output for auxiliary equipment
 1 x Sounder timed output 12vDC 100mA
 1 x Baacon timed output 12vDC 100mA
 1 x 7Ah battery backup

- 2 x Programmable inputs NO/NC 1 x Dedicated fire input

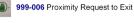
Electronic fuses are processor controlled and re-instated automatically with clear fault indication. On-board diagnostics.

Door 2











999-022 Green Triple Pole Resettable Breakglass

308-122 Standard Magnet Lock 308-117 Z&L Bracket for inward opening doors

Support for non AX locks that can be directly connected to AX300 lock output, rated at 12V up to 1.5A

Plug & Play AX300 Smart Sensors check for latest availability of other sensors due to ongoing developments IC-INT-DC **Door Panel Position Sensor** Detects the position of side panels or doors **Temperature Sensor** Standard temperature sensor range -20°C to +80°C **Temperature & Humidity Sensor** High accuracy temperature, condensation and humidity sensor IC-TS-DC **Temperature & Door Contact Sensor** Combined standard temperature and door position sensor IC-MI **Mains Present Monitoring Sensor** Monitors the availability of mains power **Light Level & Door Contact Sensor** Combined light level and door position sensor **Volt-free Relay:** 1 For access control automatic doors Flood Sensor Flood sensor with 5 metres of water sensing cable IC-SD **Smoke & Temperature Detector** Combined optical smoke and temperature detector Intrusion / Movement PIR Detection of people for intrusion or presence **General Input Module** PIR movement detection sensor Fan Fail & Temperature Sensor Fixed temperature alarm and fan fail sensor Fan Speed & Temperature Sensor Monitors fan speed based on RPM and temperature Fire Extinguishing Interface Cabinet / rack fire extinguishing interface eg FireTecPro Inputs / Output Module Two general purpose inputs and 1 relay output module **General Analogue Sensor** 0—5 volt dual analogue sensor for connection to 3rd party devices C-ASB Sounder / Beacon Module Combined sounder and beacon for audio and visual warning **Pressure & Temperature Sensor** Combined pressure and temperature sensors IC-LQT **Liquid Flow & Temperature Sensor** Combined liquid flow and temperature sensors IC-DPS **Dust Particle Sensor** Monitors the concentration of dust particles in the air flow Vibration / Shock Sensor Monitors continuous vibration or sudden shock levels **Intruder Alarm Interface** External Intruder Alarm system interface IC-AMP-100 CT Clamp Current Sensor (Amps)

Technical Data Inputs & Outputs

Readers: 2 Wiegand (8 to 50 bit

programmable)

2 Normally closed monitoring circuit **Door Contact:**

REX: 2 Request to exit pushbutton or

electronic proximity exit device

Breakglass: 2 Monitored

Lock Outputs: 2 1.5 Amp 12vDC lock outputs

Inputs: 2 Programmable inputs for advanced

features (NO/NC)

Relay Outputs: 2 Programmable relays volt-free for

advanced features

Breakglass: 2 Breakglass relay outputs

Sounder Output: 1 Timed output 12vDC 100mA Beacon Output: 1 Timed output 12vDC 100mA Auxiliary Output: 1 12vDC 1 Ampere output for third

party equipment

Smart Sensors: 6 Any combination of AX smart

sensors

Fire Input: 1 Dedicated fire input Ethernet RJ45: 1 10Mbs connection for

communication over LAN/WAN

1 7Ah monitored charger and battery Batterv:

condition (battery optional)

Material: Powder-coated steel 220 / 240V AC **Supply Voltage:**

Operating Temperature:

-10°C to +40°C

Current Consumption:

52.14W at 237VAC @ 0.22A AC typical example AX300 controller with 2 standard magnets and 2 proximity readers, BTU = 182.49

Dimensions: 300 x 260 x 75mm

(11.8 x 10.2 x 2.9")

Weight: 2.4kg (5lb 2oz)

Part Numbers: AX300 Controller 105-330

> 12v 7AH Battery 105-323

Warranty Period

The equipment is guaranteed against defects in materials and workmanship for 2 years from date of shipment (see warranty policy for details). Due to continued research, development and product enhancements, the information contained in this publication is subject to change without notice.



Monitored power distribution unit

Clamp on current monitor

Multi I/O board 8 input/8 output module

i-PDU (2 or 12 way)

IC-IO-8

C-PDU

27-28 Shrivenham Hundred Business Park, Watchfield, Swindon,

Wiltshire SN6 8TZ United Kingdom Tel: +44 (0)1793 784002 +44 (0)1793 784005 Fax: Email: info@axxessid.com Website: www.axxessid.com

X	RoHS
	Complian





1605-1	Distributor:	