Alarm Zone Controller (AZC)

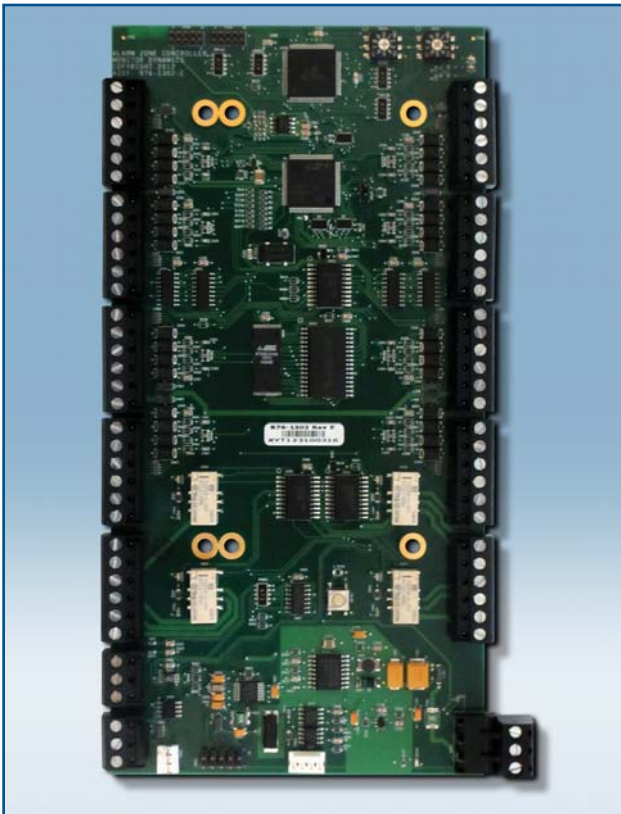**monitordynamics**

The Alarm Zone Controller (AZC) is an alarm monitoring field device that functions as an interface between alarm input devices and the Network Local Controller (NLC) Board. The AZC features 16 supervised inputs and 4 relay outputs. Application programs (firmware) and zone configurations are downloadable into FLASH memory eliminating the need to replace EPROMs for application changes and system upgrades.

During loss of communication to the NLC Board, the AZC continues to monitor

alarms and store events in a high capacity buffer. When communication is restored, the buffered events are transmitted to the host. Industry standard RS-485 communication protocol is used between the AZC and NLC.

The system design is scalable, which provides for reduced installation costs. As customer needs change and grow, additions to the system become cost-effective by simply reconfiguring the system or adding only the required controllers.

The AZC is configured with a diagnostics port which allows field service and other technical personnel to review activity, perform diagnostic analysis, and make some configuration changes.

Features:
- 16 supervised inputs are provided for alarm devices
- An additional input provided for tamper
- 4 Form-C output relays are provided for local annunciation or other purposes
- Downloadable FLASH memory eliminates need to change EPROMs for application programming and system upgrades
- SDRAM memory stores 2,000 events during any communication disruption and forwards them when communication is restored
- RS-485 communication allows local installation or remote installation up to 4,000' (1300m) from NLC
- The AZC accepts a 6.0 - 16.0 VDC power source

The AZC has mounting holes to allow upgrading of an existing Legacy RTU and can be mounted in any of the existing IDC Enclosures.

AZC-01/09/13

Technical Specifications - Integrated Digital Controller Hardware

Alarm Zone Controller (AZC)

Primary Panel Features:

Electrical

Power	6-16 VDC
Current Draw	120mA maximum

Dimensions

Width	7.0 in. (178 mm)
Length	5.0 in. (127 mm)
Height	1.0 in. (26 mm)

Environment

Temperature	32ºF-120ºF, (0ºC-50ºC)
Humidity	10%-95% (non-condensing)

Memory

Read Only	64 Kbytes Flash Memory
Random	128 Kbytes SDRAM
Event Storage	2,000 events on loss of communications

Communications

Protocol	RS-485
Distance	4,000 feet
Media Type	Twisted Pair (Belden 9841 cable)
Diagnostics Port	RS-232

Inputs

Alarm Inputs	16 Class A supervised (four state)
Tamper Switch	1 un-supervised

Outputs

Relay Outputs	4 Form-C
Max Current	1Amp @30VDC (resistive load)

Design and specifications subject to change without notice.

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