APA-16
Alarm Input Module
Supports 16 Class B Inputs

The APA-16 alarm processor module provides 16 zones which meet UL grade B line requirements. The APA-16 also monitors and reports cabinet tamper and power status.

The APA-16 has an RS-485 port for communication with the host, which can be an AP-550 master reader or an AAM-16/20/80 multiplexer panel. An interrogation/response protocol is provided between the APA-16 and the host processor. Unit address and baud rate are configured via an on-board DIP switch.

The APA-16 controls 16 outputs when equipped with the ARM-16 relay output module. This optional module connects to the APA-16 using a ribbon cable and mounts in the same enclosure.

Alarm contact status is scanned up to 180 times per second for each zone. The data is filtered for noise rejection to prevent false alarms. The APA-16 has two diagnostic LEDs. One is for host communications, and one for APA-16 heart beat.
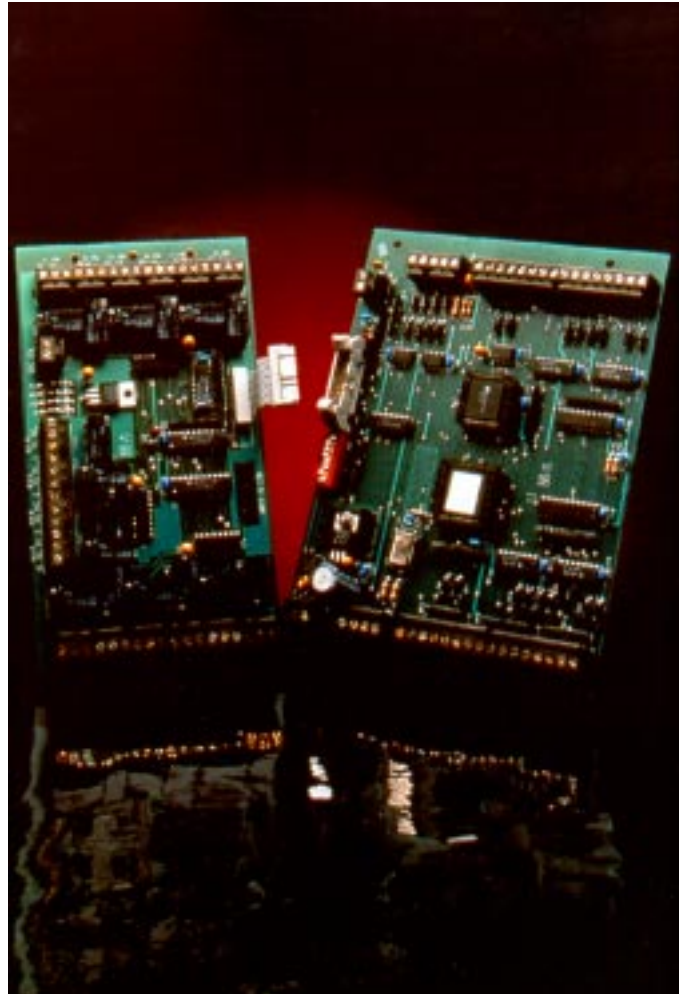
The host can download configuration of alarm inputs, alarm masking data and alarm to relay output linkage information and can request status reports from the APA-16. The APA-16 receives the date/time periodically from the host and maintains it locally.

The alarm zones of the APA-16 can be masked by time zones which are downloaded from the host. Each can be controlled by a different time zone.

Auxiliary Output Linkage

When using the ARM-16 output module, each relay output can be controlled by a combination of the following 21 inputs:

- Alarm inputs 1-16
- Power fault
- Cabinet tamper
- Host comm Loss
- Time zone Control

Any of the above conditions can initiate one or more relay outputs. A different time zone can be specified for each auxiliary output.
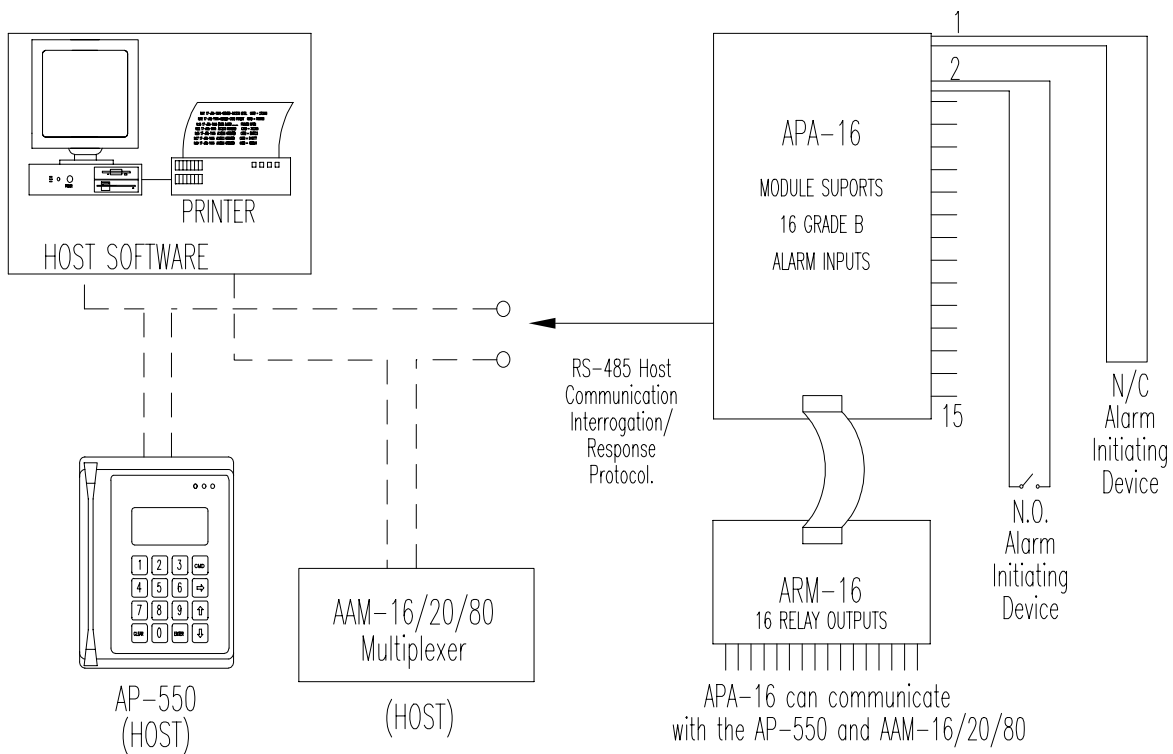
Off-line Alarm Event Storage

When the APA-16 is on-line with the host, status changes (alarm inputs) are sent immediately to the host on the next interrogation/response sequence.

When the APA-16 is off line with the host, up to 100 alarms are stored in a FIFO log alarm event buffer. At least one alarm event for each zone that was in alarm since the APA-16 went off-line is saved.

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APOLLO

HIGH LINE SECURITY USING GRADE B LINE SUPERVISION

Each stored event contains:

• Time of event
• Alarm zone number
• Alarm zone status after change
• Alarm zone status before change

The APA-16 supports the following host commands:

• Device identification request
• Set date/time
• Set/delete time zone
• Set/delete holiday schedule
• Configure alarm zone
• Set output relay pulse duration
• Configure output relay linkage
• Alarm status report request
• Set/reset output relay
• Set entry/exit delay
• Set time zone for masking
• Set time zone for auxiliary relay output
• Send stored events

The APA-16 transmits the following to the host:

• Device identification report
• Alarm status report
• Stored event report
• Cabinet tamper/power fault

Hardware features include:

• Low power CMOS microprocessor
• RS-485 communications 4000 feet (1219 meters)
• 16 Grade B alarm inputs
• Dual path reporting when used with the APX-20
• Cabinet tamper input
• Power fault input
• 17 input status LEDs/3 diagnostic LEDs
• Configuration DIP switches
• Connector to ARM-16 relay output module
• + 24Vdc operation

Note: Information contained in this document is subject to change without notice.

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