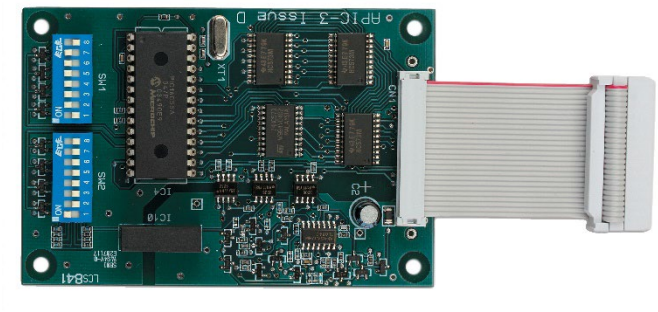
Ziton APIC Installation Sheet

Figure 1: Ziton APIC



Note: The image shown is for illustration purposes only and may not reflect actual product.

Description

The Stratos™ range of detectors has many interfacing options ranging from conventional, using the built in Alarm and Fault relays, to addressable. A range of Addressable Panel Interface Cards (APIC) is manufactured that greatly simplifies the amount of wiring required when connecting to an addressable loop. This application note explains how to install and configure the Extended Ziton version of this card.

APIC cards plug into a connector on the main PCB provided for that purpose. To use the Ziton APIC, all that is required is to plug the card into this connector using the ribbon cable attached to the interface, connect loop in and loop out on the terminals on the main PCB and set the switches to the loop address.

Installation

WARNING: Electrocution hazard. To avoid personal injury or death from electrocution, remove all sources of power and allow stored energy to discharge before installing or removing equipment.

Caution: When handling any electric components or printed circuit boards, antistatic precautions must be followed. Failure to do so may result in component damage.

Address modes

The APIC has two address modes – single address mode and multi address mode.

- **Single address mode** is used when monitoring the status of a single detector. When set to single address mode, the card uses a single address on the loop and the detector status is read from that address.
- **Multi address mode** is used when monitoring the status of multiple detectors with consecutive addresses from a single APIC. Multi address mode is normally only used in the Command Module.

Setting the address mode

Use DIP switches SW1 and SW2 on the APIC to set the address mode.

To configure single address mode (detector), set both DIP switches SW1 and SW2 to the same address.

To configure multi address mode (Command Module), set DIP switch SW1 to the first loop address and DIP switch SW2 to the last loop address in the range (for example, to monitor detectors 3 to 5 set SW1 to 3 and SW2 to 5).

Note: There is no address translation between the detector address on the SenseNET loop and the addressable loop; they are the same.

Installing the APIC:

1. Insert the plug on the APIC board ribbon cable into the matching 26-way header on the detector (a polarizing key prevents incorrect insertion).
2. Fix the board on to the four threaded pillars in the detector using four shakeproof M3 bolts, fitting the ribbon cable.
3. Each APIC is supplied with 2 RF suppression ferrite rings. To ensure compliance with all relevant EMC requirements, when the APIC is used in Micra detectors, the following points must be observed:

   Fault relay conductors (excluding screen wire) must be wound twice around a ferrite. Screen wires must be connected to earth.

   BUS connector conductors (excluding screen wire) must be wound once around a ferrite. Screen wire must not be connected to earth.

   Power conductors should be wound twice around a ferrite already provided with Micra detector (screen wire should be wound once around a ferrite). Screen wires should be connected to earth.

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Interface technical details

The APIC is recognised by the panel as device type HSSD. The card returns the following slot 5 analogues to indicate its status:

Slot 5	Status
0 – 38	Fault
39 – 104	Normal
105 – 129	Aux
130 – 149	Pre-Alarm
150 – 197	Fire 1
198 – 255	Fire 2

Loop connections (on main PCB)

Loop in +	BUSH 1
Loop in -	BUSL 1
Loop out +	BUSH 2
Loop out -	BUSL 2

Panel alarms

The fire panel will display the following alarm levels:

Detector alarm level	Panel alarm level
Fault	FAULT
Normal	NORMAL
Aux	ALERT
Pre-Alarm	PRE-ALARM
Fire 1	ALARM
Fire 2	ALARM

Maintenance

Basic maintenance consists of a yearly inspection. Do not modify internal wiring or circuitry.

Regulatory information

Conformity	CE UK CA
Manufacturer	Carrier Manufacturing Poland Spółka Z o.o., Ul. Kolejowa 24, 39-100 Ropczyce, Poland. Authorized EU manufacturing representative: Carrier Fire & Security B.V., Kelvinstraat 7, 6003 DH Weert, Netherlands.
	2012/19/EU (WEEE Directive): Products marked with this symbol cannot be disposed of as unsorted municipal waste in the European Union. For proper recycling, return this product to your local supplier upon the purchase of equivalent new equipment, or dispose of it at designated collection points. For more information see: recyclethis.info.

Contact information and product documentation

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