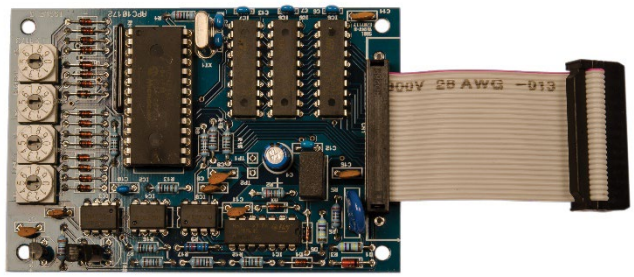
Notifier APIC Installation Sheet

Figure 1: Notifier 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 Notifier version of this card.

APIC cards plug into a connector on the main PCB provided for that purpose. To use the Notifier 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 mode

The APIC supports single address mode. This mode is used when monitoring the status of a single detector.

In this mode the card uses a single address on the loop and the detector status is read from that address.

Setting the address

Caution: There is no translation between the detector address(es) and the SenseNET loop. The detector address(es) *must* be configured with the same address(es) as the fire panel loop address(es).

Use the rotary dials Lowest and Highest on the APIC to set the address.

Set both the Lowest and the Highest rotary dials to the same address.

Note: Due to the limits of the Notifier protocol, the APIC card only supports detector addresses from 1 to 99.

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 card returns the following PW4 widths to indicate its status:

PW4	Status
150us	Fault
800us	Normal
1400us	Aux
1800us	Pre-Alarm
2600us	Fire 1
3000us	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	-
Normal	-
Aux	Alarm Level 1
Pre-Alarm	Alarm Level 2
Fire 1	Alarm Level 4
Fire 2	Alarm Level 5

Maintenance

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

Regulatory information

Conformity	CE UKCA
Manufacturer	KGS Manufacturing Poland Sp. z.o.o., Ul. Kolejowa 24, 39-100 Ropczyce, Poland. Authorized EU manufacturing representative: KGS 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

For contact information or to download the latest product documentation, visit firesecurityproducts.com.

Product warnings and disclaimers

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