SmartOne®
Addressable Protocol Interface Card (APIC)

K-76-104

Effective: May 2020

FEATURES

- ***Seamlessly Interfaces an AIR-Intelligence™ HSSD® on the Signaling Line Circuit of a Kidde® Intelligent Control Unit ****
- ***2 Distinct Modes of Operation:***
  - ***Single Address Mode***
  - ***Multi-Address Mode***
- ***Easy to Install***
- ***UL Listed***
- ***ULC Listed***

* Excludes PEGAsys™, PEGAsys LV, FENWALNET™ 2000, FENWALNET 2000 LT, FENWALNET 1000 and FENWALNET 4000.

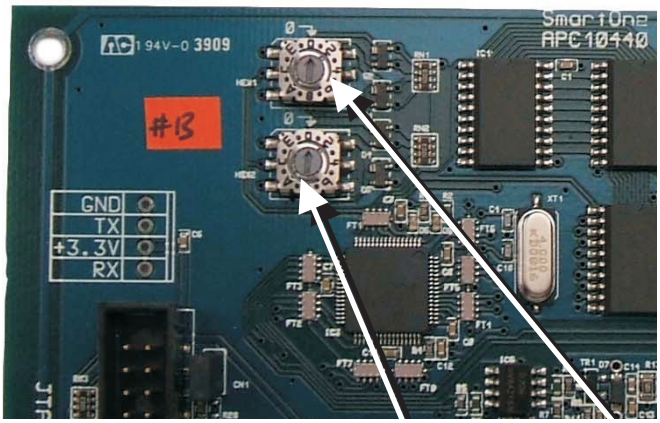

Figure 1. SmartOne APIC

DESCRIPTION

The SmartOne® APIC is an interface module designed to provide seamless integration between AIR-Intelligence detectors and fire alarm/suppression control units using the SmartOne Signaling Line Circuit (SLC) protocol.

The SmartOne APIC has two distinct modes of operation:

- Single Address mode
- Multi-Address mode

In Single Address mode, the SmartOne APIC is connected directly to a detector main circuit board, using a ribbon cable.

In Multi-Address mode, the SmartOne APIC is connected to a Command Module using a ribbon cable. The Command Module is connected to a SenseNET loop containing multiple detectors, and the SmartOne APIC acts as the interface between all these detectors and the control unit. The SmartOne APIC senses whether it is connected to a single detector or a Command Module when powered up.

Note: In either mode, any change to a detector address must be made manually to the detector or SmartOne APIC. The control unit cannot be used to change a detector's address.

Single Address Mode

When the interface is set to Single Address mode, the card is set to a Single Address on the SLC, and the detector status is read from that address.

The 2 hex switches on the SmartOne APIC card, shown as HEX1 (second decimal place) and HEX2 (first decimal place), are used to specify the address. The address can be any value between 1 and 255 (inclusive).

In Single Address mode, the address set on the detector card is ignored by the SmartOne APIC. The address set on the SmartOne APIC card will be the address that is used by the control unit.

Note: If AIR-Intelligence Remote 3 software is used on the detector, the address it sees will be the address set on the detector's dip switches.

Multi-Address Mode

Multi-Address mode is used when using a single SmartOne APIC card to monitor the status of multiple detectors on a Command Module loop. The SmartOne APIC is mounted within the Command Module.

In Multi-Address mode, the hex switches on the SmartOne APIC card are not used. Instead, the address of each detector is set using the detector's dip switches. In Multi-Address mode, the address of each detector can be any value between 1 and 127 (inclusive).

STATUS MODES

The APIC card returns the following status modes, which are interpreted by the control unit:

- Normal
- PC Line Trouble
- Low Airflow Trouble
- High Airflow Trouble
- Detector Trouble
- Isolation Trouble
- Pre-Alarm
- Fire

SPECIFICATIONS

Input Voltage:

- 20.4 to 28.0 Vdc

Operating Current:

- 100 µA

Operating Conditions:

- Temperature: - 32ºF to 120ºF (0ºC to 49ºC)
- Relative Humidity: - 0-85%

Dimensions:

- 4 in. x 2-3/4 in.(102 mm x 68 mm)

ORDERING INFORMATION

Description	Part Number
APIC	76-333002-001

COMPATIBLE CONTROL UNITS

Fire Alarm Control Unit (FACU) Type	Current Product	Legacy Product
Single Loop	ARIES®-SLX	ARIES FenwalNET™ 6000
Multiple Loop	ARIES®-MLX	ARIES NET*Link* FenwalNET 8000-ML

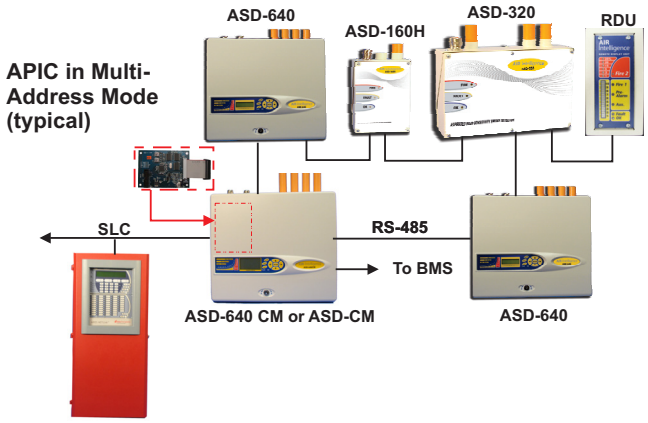

Figure 2. Control Unit Interface - Multi-Address Mode

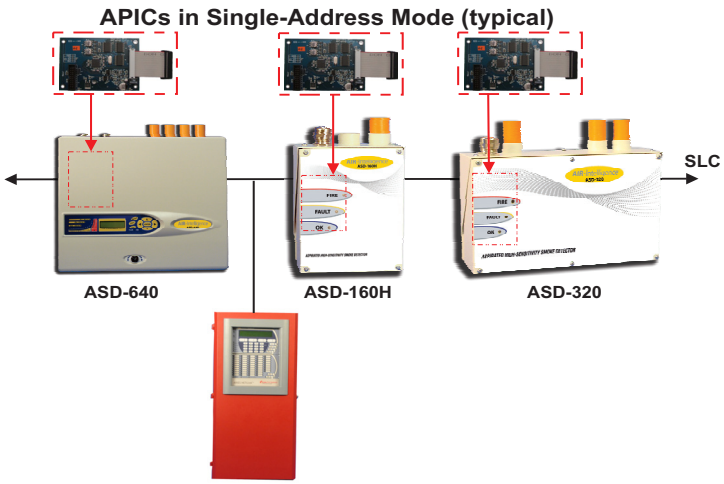

Figure 3. Control Unit Interface - Single-Address Mode

EXPORT INFORMATION (USA)
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