| Project : | F4WD |
| Project Number : | HI39700 |

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SBM CDR Description : Equipment Index & Data Sheets

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Supplier : KIDDE CHINA LIMITED

Address : 8F, Building A, New Bund World Trade Center No.4, Lane 255 Dong Yu Road, Shanghai

Package Description : Gaseous Fire Fighting System Package

Vendor P.O. Reference :

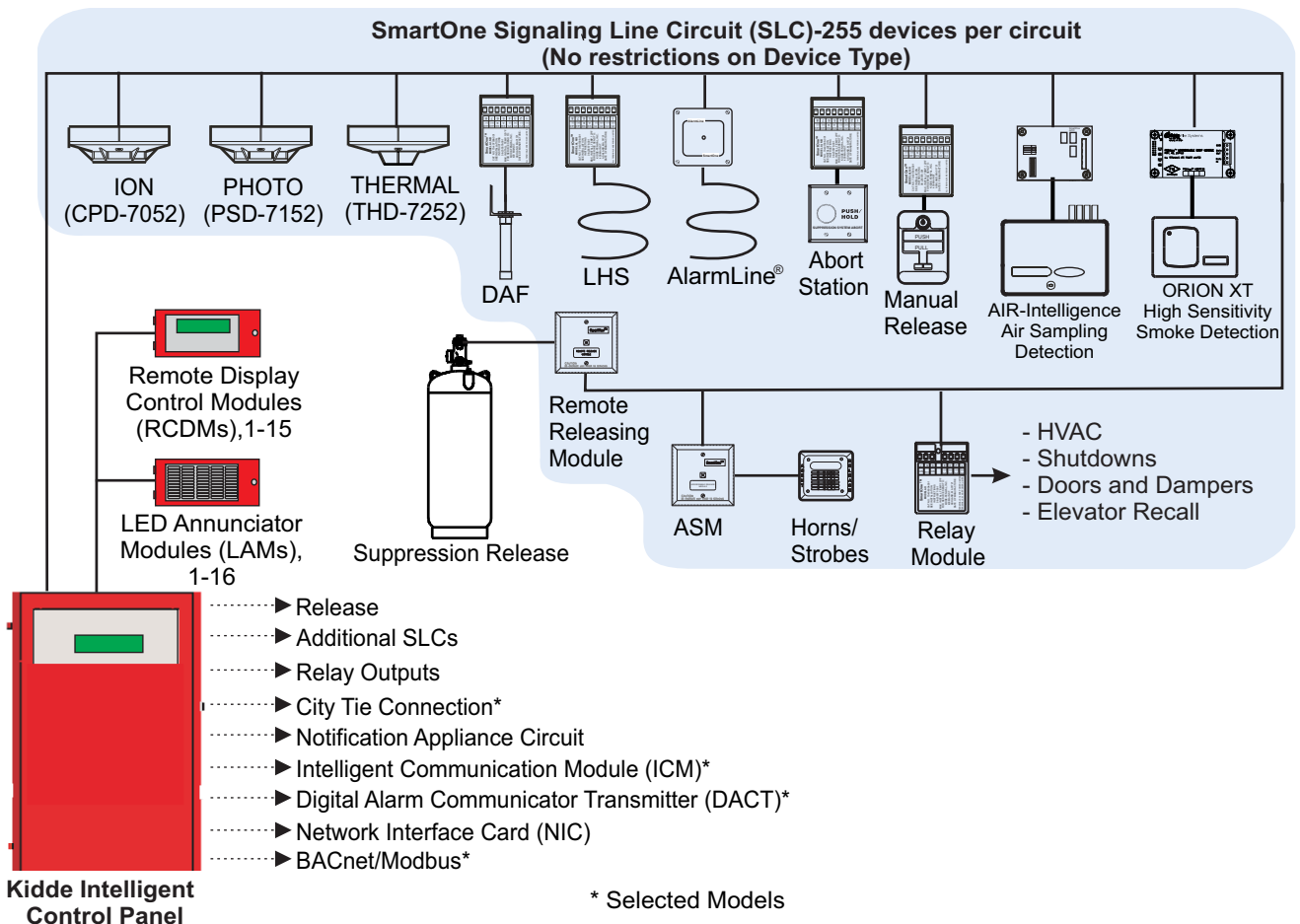Vendor Document Number : KD-1802-AK-002

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Document Title : Equipment Index &Data Sheets For Fire Devices System

Total Pages (incl. front page) : 4

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Notes _____

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SmartOne® DEVICES

This document describes all SLC devices used on the Kidde Intelligent Control Panels.

**SmartOne Signaling Line Circuit (SLC)-255 devices per circuit
(No restrictions on Device Type)**

ION (CPD-7052)

PHOTO (PSD-7152)

THERMAL (THD-7252)

DAF

LHS

AlarmLine®

Abort Station

Manual Release

AIR-Intelligence Air Sampling Detection

ORION XT High Sensitivity Smoke Detection

Remote Display Control Modules (RCDMs),1-15

LED Annunciator Modules (LAMs), 1-16

Suppression Release

Remote Releasing Module

ASM

Horns/ Strobes

Relay Module

- HVAC
- Shutdowns
- Doors and Dampers
- Elevator Recall

Kidde Intelligent Control Panel

- ► Release
- ► Additional SLCs
- ► Relay Outputs
- ► City Tie Connection*
- ► Notification Appliance Circuit
- ► Intelligent Communication Module (ICM)*
- ► Digital Alarm Communicator Transmitter (DACT)*
- ► Network Interface Card (NIC)
- ► BACnet/Modbus*

* Selected Models

SmartOne® Intelligent devices and modules provide initiating and control inputs and outputs from a single pair of wires on a Signaling Line Circuit (SLC). All SmartOne devices and modules are designed to provide world-class space/hazard detection and suppression outputs when needed. They offer greater capacity, flexibility, and reliability than conventional and analog detectors because of a built-in 4K microprocessor that gives them on-board intelligence.

In a SmartOne network, intelligence is distributed across the network, not confined to the network control unit. Each SmartOne detector has the ability to analyze data and make decisions based on its programmed need.

Kidde Intelligent control units are backward-compatible with the installed base of SmartOne initiating and control devices, preserving your investment in Kidde fire suppression system products that you have acquired over the years.

To access the Device Index, click here: **To DEVICE INDEX**

To access Ordering Information, click here: **To ORDERING INFORMATION**

ARIES NET*Link*™

Multi-Loop Intelligent Fire Alarm-Suppression Control Unit

FEATURES

- Intelligent addressable multi-loop, suppression-focused control unit
- Triple R redundancy provides maximum protection against inadvertent release
- Out-of-the-box features:
  - 2 SLCs with 255 unrestricted addresses each (510 total)
  - 4 x 40 Display-Keypad
  - 4 Programmable soft-switches
  - 2 NACs and 2 R-NACs
  - 3 Programmable and 1 Trouble Form-C Relays
  - 2 Auxiliary Power Outputs, 2 amps each
  - USB ports for PC and printer
  - RS-232 ports for graphics
  - 120/240V, 50/60 Hz AC input
  - 5.4 A Power Supply Unit
  - Charging Capacity of 165 AH (UL) and 132 AH (ULC)
  - RS-485 Annunciator bus
  - 2-Tier or 3-Tier NEMA 1 Enclosure – fits between 16"studs
- Suppression systems include:
  - FM-200, FE-13, 3M Novec 1230 Fire Protection Fluid, Carbon Dioxide, Argonite & Halon Clean Agents
  - Dry Chemical, Wet Chemical
  - Water-Mist
  - Sprinkler Supervisory Service
  - Deluge, Pre-Action, Foam, Foam-Water Systems
- Modular and expandable
  - From 3 to 8 SLCs (2,040 addresses)
  - Up to 96 relays
  - Up to 72 release/NAC circuits
  - Combinations of the above and/or functional modules
- Networkable up to 64 nodes (130,560 addresses)
- Flexible programming
- High level serviceability and diagnostics
  - Ground fault detection by circuit
  - 10,000 event log capacity
  - Internet connectivity with e-mail notification feature
- Modbus RTU, Modbus TCP/IP, BACnet MS/TP and BACnet IP compatibility
- Backwards compatible with installed investment
  - SmartOne SLC devices & protocol
  - Kidde Control Heads
  - Actuators
  - Legacy PEGAsys panels via simple retrofit kit
- Seamlessly integrated HSSD, ASD and LHD
- Pluggable terminal blocks
- User Interface 4 x 40 display supports 4 languages: English, French Canadian, Spanish and Portuguese
- French Canadian, Spanish and Portuguese Language kit
- Approvals/Listings[*]:
  - FM Approved to ANSI/UL864
  - UL Listed No. S2422
  - cUL Listed No. S2422
  - CSFM Approved: No. 7165-1076:0195
  - California OSHPD Special Seismic Certification Pre-Approval, No. OSP-0286-10
  - NYC Fire Department Certificate of Approval: No. 6092
  - City of Chicago Acceptable for Class 1 Applications
- RoHS compliant

DESCRIPTION - CONTROL UNIT

The ARIES NET*Link*™ is one of the most technologically advanced intelligent fire alarm suppression-focused control units available to the industry today. It combines the high quality, system reliability, and flexibility required by modern commercial, high-tech and industrial applications in an aesthetically-pleasing and physically-robust package. Its modular architecture enables easy field expansion from the base 2-SLC unit that supports 510 addressable devices (255 per circuit) to an 8-SLC system that supports 2,040 addressable devices; 130,560 addresses available for a 64-node network.

The ARIES NET*Link* is compact, fits between wall stud dimensions, and is designed to be quick and easy to install. Cutting edge technologies incorporated in the electronics design enable diagnostics for time-efficient commissioning.

Main Controller Board - MCB

The ARIES NET*Link*'s main printed circuit board contains the system's central processing unit (CPU) and all of the primary circuits. The MCB is the heart of the system, controlling the operation and supervision of all the system modules and software. It receives loop device data, processes the data based on pre-programmed instructions, and transmits output commands to the output modules, field devices, and display(s). The MCB is mounted to the enclosure using special design hinged standoffs which permit the board to swing left and enable easy access to the PMU/PSU assembly behind.

User Interface

The user interface consists of a built-in keypad and display which provide physical means by which an operator and/or installer performs system functions, enters the security password, operates soft keys, navigates the system menus, configures and tests the entire ARIES NET*Link* system. The LCD display supports four languages: English, French, Spanish, and Portuguese (selected from the top-level menu).

2-4 STANDARD SYSTEM INSTALLATION PROCEDURE

The instructions which follow pertain to installation of a standard ARIES NET*Link* control unit, which includes one Power Supply Unit, one Power Management Unit (PMU) Board and Main Controller Board (MCB) with Keypad/Display. Installation for additional equipment follows this section. Refer to Section 2-7.

2-4.1 Surface Mounting of Main or Expansion Enclosures

To surface mount either the 3-Tiered Enclosure or 2-Tiered Enclosure (see Figure 2-1), do the following;

1. Mark and pre-drill holes for mounting bolts using the dimensions shown. Three keyhole slots (at the top) and three holes (at the bottom) are located in the enclosure's rear panel that serve as a template for surface mounting.

Note: The installer must supply the mounting bolts (up to size 1/4-20).

2. Insert the upper three fasteners in the wall. Leave approximately 1/4" of the screws protruding.
3. Slip upper keyholes of the enclosure over the protruding screws. Tighten the screws.
4. Insert and tighten the three lower screws.

Note: It is recommended that one of the rows of mounting holes be aligned with the wall stud, preferably the middle row of mounting holes.

5. Attach wiring conduit to the enclosure via the enclosure knockouts and pull the required number of wires through the conduit to the enclosure. Leave approximately 2 to 3 feet of wire length in the enclosure for field wiring connections.
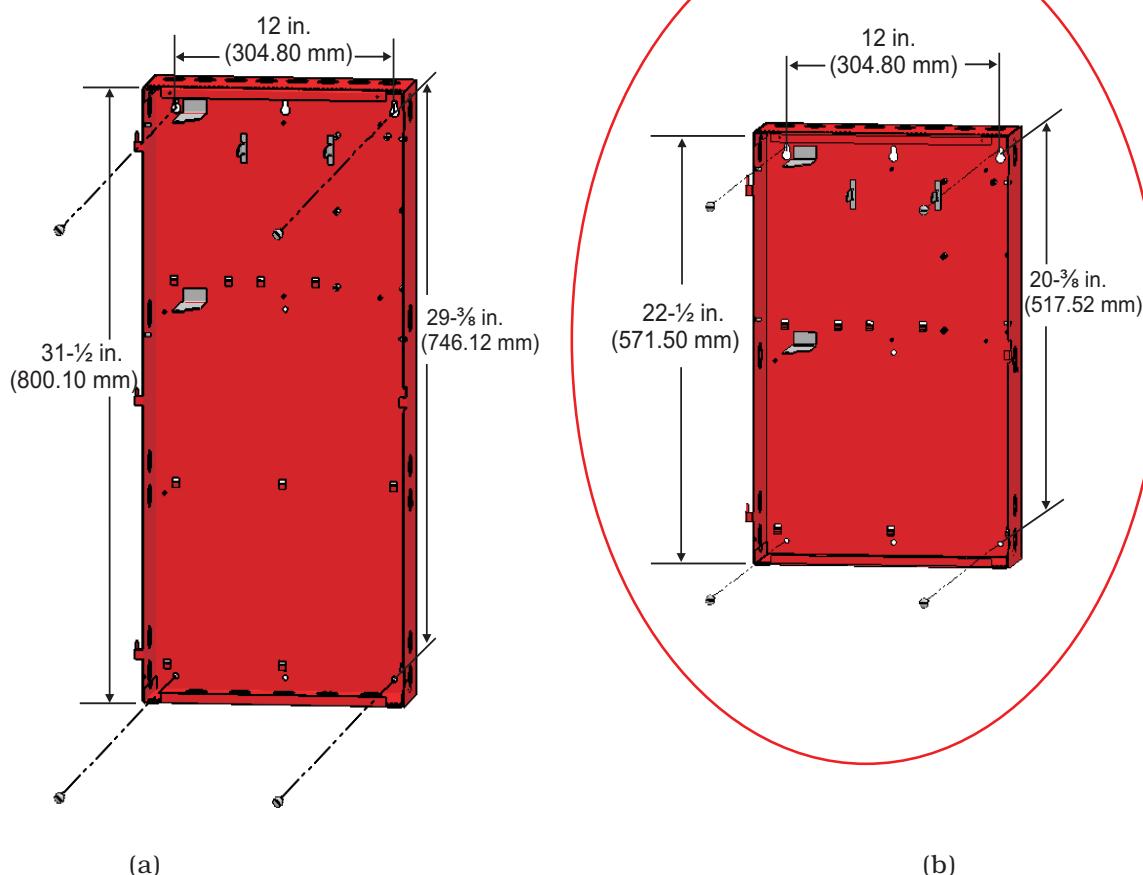

Figure 2-1. Mounting Dimensions for 3-Tiered (a) and 2-Tiered (b) Main and Expansion Enclosures