KIDDE
COMMERCIAL

The next generation Future ready

EXCELLENCE SERIES ADDRESSABLE CONTROL UNIT CATALOGUE

EXCELLENCE SERIES
addressable control units

The new Kidde Commercial EXCELLENCE SERIES control units form an intelligent range of next generation devices. They are DIN and wall mounted, freely connectable EN54 certified input and output (IO) control devices with multi coloured functional indicators. Delivered complete with pluggable connectors, loop test connector, trigger and end-of-line resistors, multiple optional accessories are available to facilitate most indoor and outdoor installation requirements.

New control units may be combined with legacy units on a new EXCELLENCE SERIES loop, making expansion or upgrading possible with a minimum of investment.

Compatible with Kidde Commercial's new fire control panel range for EUA, these devices support the new EXCELLENCE SERIES addressable communication protocol. With the EXCELLENCE SERIES protocol's support for legacy Aritech fire devices, the new control units may be combined with legacy units on a new EXCELLENCE SERIES loop, making system expansion or upgrading possible with a minimum of investment.

Features:

- Integrated short circuit isolation means that no additional short circuit isolator needs to be installed for additional device loop protection, saving installation time and cost

- DIN rail and wall mount options offers full flexibility for all installation types

- Various mounting cabinet options facilitate easy installation, matching with the CIE colour scheme for perfect aesthetics, and providing pre-fitted cable trunking for easy and neat internal cabling

- Well-established DIP switch addressing means no additional training or familiarising engineers with the product is required, saving time and cost

- A protected DIP switch prevents tampering and unintended address changes, reducing downtime and maintenance costs

- A tri-colour status indicator for the device offers clear local device status, avoiding unnecessary interaction with the CIE (control panel) to establish the real time status

- A tri-colour status indicator for every input and output offers clear local IO status on demand, avoiding unnecessary loop current consumption whilst still offering local real time status indication to make any fault finding easier

- Local test facilities for every input and output saves time in interacting with third-party equipment as well as avoids unnecessary system alarms that may be inconvenient for building occupants

- A pluggable loop connector, with link through facility, means easy first-fix installation and pre-commissioning cable testing prior to expensive equipment arriving on site, making installation quicker and preventing damage to equipment during building construction

- Pluggable input and output connections for easy first fix installation and device changes or upgrades

Indoor and outdoor applications

The EXCELLENCE SERIES input/output control range is suitable for surface mounting installations using industry standard DIN rails, so simple screw fix wall mount boxes. Its tri-colour device LEDs offers continuous, clear local indication of its operational status, whilst the individual tri-colour input- and output LEDs can be activated on demand to verify the individual input and output status of every IO channel. The clean face of the IO units is further enhanced by front access test facilities that allow individual groups of inputs and/or outputs to be tested without needing control panel interaction.

For outdoor applications, only a suitable IP housing is needed. All other functionality remains completely identical using the same IO device.
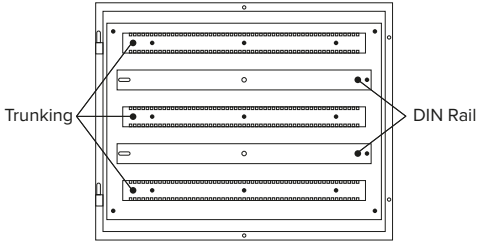
	Description	Application

KE-IU3110
 	
	1 Supervised Input
	
	 Offers 1 x freely programmable bi-level supervised input and integrated loop isolation
	
	 Supplied complete with:
	 • Loop connector
	 • Input connector
	 • Supervision resistors for:
	   • Alarm 1
	   • Alarm 2
	   • End-of-line
	 • Cable loopback connector
		Main function: Supervised interface for third-party products or systems
		
		 May be used to monitor any potential free contact that provides additional information into the fire alarm system such as:
		 • Fire door monitors
		 • Ventilation monitors
		 • Flow switches, pressure switches and valves
		 • Elevator control monitors
		 • Etc.
		
		 Note: This device can co-exist with legacy Aritech 2000 series devices on an EXCELLENCE SERIES fire panel loop

KE-IO3101 	**1 Relay Output** Offers 1 x freely programmable change over potential free relay and integrated loop isolation Supplied complete with: • Loop connector • Output connector • Cable loopback connector	**Main function: Potential free control for third-party products or systems** May be used to control any low voltage products or systems, typically 12 to 24 VDC, that extend the functionality of the fire alarm system such as: • Fire doors • Ventilation and air conditioning • Elevator/lift control • Emergency lighting • Gas valves • Etc. Note: This device can co-exist with legacy Aritech 2000 series devices on an EXCELLENCE SERIES fire panel loop
KE-IO3101-M 	**1 Mains Relay Output** Offers 1 x freely programmable double pole mains relay and integrated loop isolation Supplied complete with: • Loop connector • Output connectors • Cable loopback connector	**Main function: Control of mains power supply for third-party products** May be used to control any high voltage products or systems, typically 220 to 240 VAC, that extend the functionality of the fire alarm system such as: • Motorised fire doors • Mains powered notification or mass notification systems • Ventilation and air conditioning • Elevator control • Etc. Note: This device can co-exist with legacy Aritech 2000 series devices on an EXCELLENCE SERIES fire panel loop

	Description	Application

KE-IO3122	**2 Supervised Inputs / 2 Relay Outputs**
	
	 Offers 2 x freely programmable bi-level supervised input, 2 x freely programmable change over potential free relay and integrated loop isolation
	
	 Supplied complete with:
	 • Loop connector
	 • Input connectors
	 • Supervised resistors for:
	  • Alarm 1
	  • Alarm 2
	  • End-of-line
	 • Ouput connectors
	 • Cable loopback connector
		Main function: Supervised interface and control for third-party products
		
		 May be used to monitor any potential free contact that provide additional input into the fire alarm system such as:
		 • Fire door monitors
		 • Ventilation monitors
		 • Flow switches, pressure switches and valves
		 • Elevator control monitors
		 • Etc.
		
		 May be used to control any low voltage products or systems, typically 12 to 24 VDC, that extend the functionality of the fire alarm system such as:
		 • Fire doors
		 • Ventilation and air conditioning
		 • Elevator/lift control
		 • Emergency lighting
		 • Gas valves
		 • Etc.
		
		 Note: This device can co-exist with legacy Aritech 2000 series devices on an EXCELLENCE SERIES fire panel loop

KE-IO3144	**4 Supervised Inputs / 4 Relay Outputs**
	
	 Offers 4 x freely programmable bi-level supervised input, 4 x freely programmable change over potential free relay and integrated loop isolation
	
	 Supplied complete with:
	 • Loop connector
	 • Input connectors
	 • Supervised resistors for:
	  • Alarm 1
	  • Alarm 2
	  • End-of-line
	 • Ouput connectors
	 • Cable loopback connector
		Main function: Supervised interface and control for third-party products
		
		 May be used to monitor any potential free contact that provide additional input into the fire alarm system such as:
		 • Fire door monitors
		 • Ventilation monitors
		 • Flow switches, pressure switches and valves
		 • Elevator control monitors
		 • Etc.
		
		 May be used to control any low voltage products or systems, typically 12 to 24 VDC, that extend the functionality of the fire alarm system such as:
		 • Fire doors
		 • Ventilation and air conditioning
		 • Elevator/lift control
		 • Emergency lighting
		 • Gas valves
		 • Etc.
		
		 Note: This device can co-exist with legacy Aritech 2000 series devices on an EXCELLENCE SERIES fire panel loop

KE-IU3110-ZME	**1 Conventional Zone Monitor** Offers 1 x conventional zone interface, 1 x relay output and integrated loop isolation Supplied complete with: • Loop connector • Zone connector • Supervision resistor for: • Standard end-of-line • Ouput connectors • Cable loopback connector	**Main function: Interfacing a conventional fire zone into the EXCELLENCE SERIES addressable system, providing 24 VDC power and supervision** May be used to monitor any zone of conventional fire alarm devices such as: • Conventional point detectors, standard or intrinsically safe • Conventional manual call points (MCPs) • Conventional flame detectors • Conventional beam detectors • Etc. Note: This device can co-exist with legacy Aritech 2000 series devices on an EXCELLENCE SERIES fire panel loop

Accessories – Surface mount back boxes

Offers cable entry from behind when used with hidden cable trunking, or knock-out cable entry from the top and bottom when surface mount cable trunking is used. The flexibility of cable entry from the large opening in the rear, or the dust proof knockouts at the top and bottom of the unit greatly enhances the applications for all types of installations. The back box may be rotated through 180° to position the selected entry orientation in the most convenient location at the top or the bottom of the unit. A perfect fit between the back box and the manual call point front is guaranteed by device alignment guides that avoid misalignment of the back box with the front part, presenting the manual call point as a single aesthetic product on the wall.

	Description	Application
N-IO-MBX-2	**Small wall box** Supplied complete with: • Cabinet keys • Fitted DIN rails • Fitted cable trunking	**Used for surface mounting multiple EXCELLENCE SERIES or third-party DIN modules** Trunking — DIN Rail
N-IO-MBX-1	**Large wall box** Supplied complete with: • Cabinet keys • Fitted DIN rails • Fitted cable trunking	**Used for surface mounting multiple EXCELLENCE SERIES or third-party DIN modules** Trunking — DIN Rail

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