

# TAKTIS UL FIRE

## Analogue Addressable Control Panel 2-16 loop

### Features

- ▶ UL864 (10th edition) Listed and FM Approved
- ▶ 2 to 8 loop or 2 to 16 loop versions
- ▶ 400mA loop current
- ▶ 4 programmable NACs; Class B or 2 Class A with internal synchronization
- ▶ 5.25 A or 10.25 A power supply options
- ▶ 3 programmable inputs and 5 programmable relay outputs
- ▶ 7 inch, full-color resistive touch screen with intuitive user interface
- ▶ Up to 24 programmable soft “function keys”
- ▶ Hard-wired fire and trouble routing inputs and outputs
- ▶ Modular and expandable electronics
- ▶ 400 subaddress points per loop (800 per loop module)
- ▶ Option to “invert” inputs and outputs
- ▶ 5000 programmable cause and effects; over 50,000 inputs and outputs
- ▶ Can be networked with programmable functionality
- ▶ Programming via USB port to PC or memory stick
- ▶ Ocular graphical fire management system



### Description

Taktis® is Kentec’s most powerful and sophisticated analogue addressable fire panel. Intelligent and technically robust, it has enhanced integration and networking capabilities to meet the current and future needs of small to larger buildings and installations.

Initially configured as a fire detection and alarm system, the flexibility of Taktis is such that it can be re-configured to realise many other control and indication applications, with direct integration into intelligent buildings.

Available in four and eight slot variants, Taktis fire control panel ranges from two to 16 detection loops. Taktis can network up to 128 panels, making it ideal for the largest sites such as schools, hospitals, multi-site retail/supermarkets, critical infrastructure and major commercial and industrial facilities.

Multiple protocols can be supported on each panel to give installers and end-users maximum choice in their systems’ design, and the scalable nature

of the product provides the highest level of future-proofing and networking possibilities.

The modular nature of Taktis allows all field wiring to be connected to a passive motherboard enabling addition, re-configuration or replacement of all electronic hardware without the need to disconnect any field wiring. This modularity also allows each panel to be customised with addressable loop detection circuits, conventional detection circuits, relaycards, additional sounder outputs or programmable I/O modules as required.

As a truly open protocol panel it offers installers and their customers maximum flexibility in systems’ design, site-customisation and in the third-party devices that they use. Not only does Taktis provide solutions to the most technically challenging applications in life safety, it will also deliver added value, market advantage and a competitive edge to your business.

### Optional Panel Peripherals

#### Dual Loop Panel Module (S758)

The Dual Loop Panel Module monitors loop device status and provides status to the panel processor. It holds device configurations and operates in a standalone manner when catastrophic failures occur.

#### 16 Channel I/O Interface Card (S560)

The 16 Channel I/O Interface enhances the versatility of the alarm system by providing additional input and output capabilities to the Taktis® Fire Alarm Control Panel. Inputs or outputs can be selected for up to 16 individual channels, and are configured in the same way as devices connected to addressable loops of the panel. The 16 Channel I/O Interface can be configured to contribute or act upon cause and effect logic.

#### Media Gateway™ Panel Module (S788)

The Media Gateway Panel Module provides connectivity to monitoring centers using IP (Sur-Gard), or dial-up connectivity. The Media Gateway may also be used to meet integration application requirements.

#### 8 Channel Relay Panel Module (S791)

The 8 Channel Relay Panel Module has 8 voltage-free changeover relay contacts, each of which can be individually programmed. All outputs are configurable in the same way as devices connected to the loops and all may be acted upon by cause and effect logic. These boards are typically used in applications which require more than the five standard relay outputs, such as signaling to other systems or plant control.

#### Network Module (S723)

The Taktis® Network Module provides enhanced highspeed communication for networking fire control panels. The network provided by this module can support combinations of Taktis® Fire Alarm Control Panels and Taktis® Vision units. Taktis® Fire Alarm Control Panels can receive events from other panels in the network. The Class X networking used in conjunction with the Network Module provides tolerance against open and short circuit trouble conditions.

## Printer (S768)

The L@titude Printer is an optional feature for printing fire system events as they occur. The printer is located on the fascia, below the Zone LEDs (if present). It is a thermal printer and never requires replacement ink. Printing is performed on heat-sensitive paper rolls. A trouble message is reported when the paper runs out. The printer includes a front-loading feature for replacing paper rolls.

## Zone LED Module (S771)

The Zone LED module contains 48 LEDs and is connected to the LCD Main Processor Board of the L@titude Fire Alarm Control Panel. A maximum of three Zone LED modules can be connected to provide the fascia with 144 Zone LED indicators.

## 4 Channel NAC Panel Module (S793) (Future enhancement)

Additional NAC output capability can be added to by using 4 Channel NAC Modules. These boards have 4 supervised NAC outputs, each of which can be individually programmed. The circuits can be configured for class A or B operation. These circuits can be configured to act upon cause and effect logic.

## 8 Channel Conventional Zone Panel Module (S792) (Future enhancement)

The 8 Channel Conventional Zone Panel Module has 8 supervised detection circuits (Class B). Each circuit can support up to 20 conventional detectors and approved devices. Individual circuits may be configured for trigger resistor or short circuit activation. These circuits may be used for any of the standard input actions and can be configured to contribute to cause and effect logic. Each pair of circuits (e.g., 1 and 2, 3 and 4, etc.) can be joined to form a single Class A configuration.

## 16 Channel I/O Interface Panel Module (S772) (Future enhancement)

The 16 Channel I/O Interface Panel Module will provide the same functionality as the 16 Channel I/O Interface Card, with the convenience of a plug-in-module.

### Specification 2-8 loop (4 slot) Enclosure

Size	Standard - 420mm (W) x 590mm (H) x 153mm (D), or 16.5in (W) x 23.2in (H) x 6in (D) Deep - 420mm (W) x 590mm (H) x 203mm (D), or 16.5in (W) x 23.2in (H) x 8in (D)
Construction	1.5mm mild sheet steel
Cable entry	Standard - 28 knockouts top, 19 knockouts back, 1 knockout each side, 2 knockouts bottom Deep - 38 knockouts top, 19 knockouts back, 1 knockout each side, 2 knockouts bottom
Optional Semi-Flush Mounting Kit	Semi-Flush Mounting Collar Kit KM5FCRD - Red KM5FCGY - Gray KM5FCBS - Black
Battery capacity	Standard - Up to 28 Ah (Power Sonic PS-12280) Deep - Up to 40 Ah (Power Sonic PS-12400)

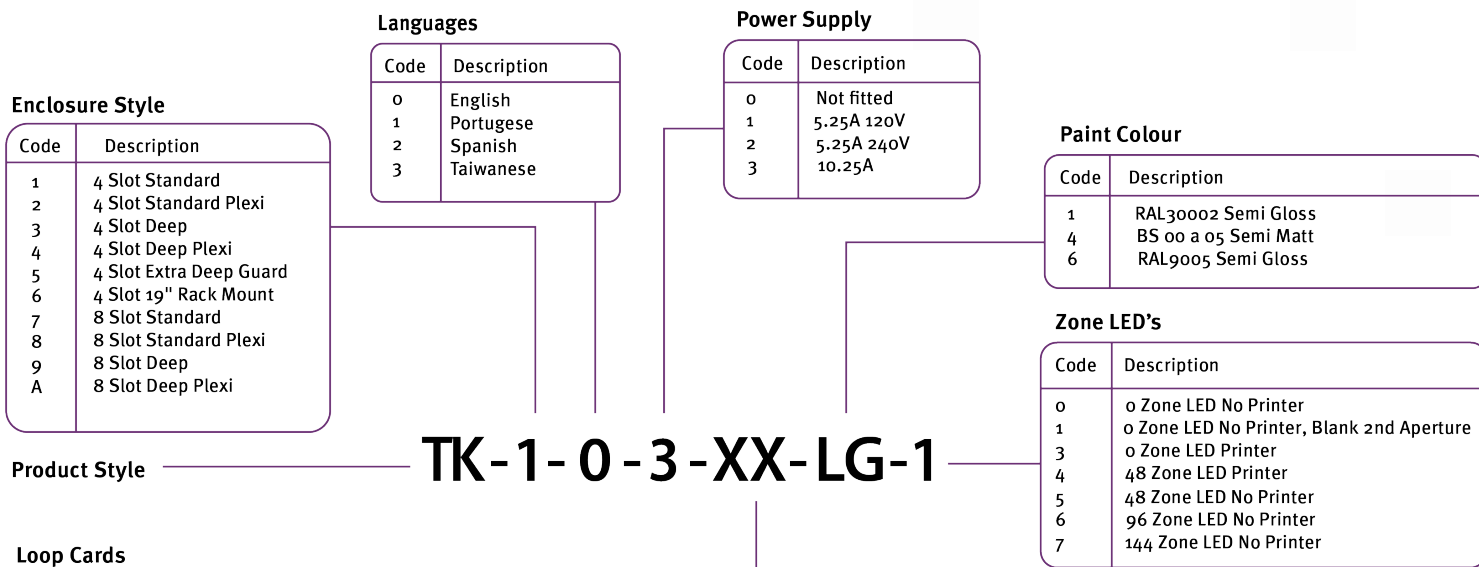
### Specification 2-16 loop (8 slot) Enclosure

Size	Standard - 540mm (W) x 720mm (H) x 160mm (D), or 21.3in (W) x 28.3in (H) x 6.3in (D) Deep - 540mm (W) x 720mm (H) x 212mm (D), or 21.3in (W) x 28.3in (H) x 8.3in (D)
Construction	1.5mm mild sheet steel
Cable entry	Standard - 38 knockouts top, 25 knockouts back, 2 knockouts each side, 2 knockouts bottom Deep - 50 knockouts top, 25 knockouts back, 2 knockouts each side, 2 knockouts bottom
Battery capacity	Standard - Up to 28 Ah (Power Sonic PS-12280) Deep - Up to 40 Ah (Power Sonic PS-12400)

## Specification

Finish	Epoxy powder coated
Colour - Lid & Box	Red (RAL3002) Gray (BS 00 A 05) Black (RAL9005)
Colour - Controls Plate	Signal White (RAL9003)
Power supply voltage	120V AC or 240V AC
Power supply rating at 24V DC	5.25A (charges up to 60Ah) or 10.25A (charges up to 100Ah)
Display	Full colour 800 x 480 LCD with resistive touch screen and automatic backlight dimming
Printer	40 column, front loading thermal (optional)
Zone LED indicators	Up to 3 banks of 48 (144) (optional)
Software zones	2000
Software groups	Up to 5000 including upto 40,000 inputs or outputs (Dynamically assigned)
Cause and Effects	5000
Event log	10,000 events, 1 second resolution. Filterable and printable
Detection loops	2 to 16 added 2 at a time (S758 dual loop cards)
Detection loop current	400 milliamps each
AUX 24V Output	2; each rated at 900 mA
NACs	4; each rated at 2.5 A. Class B or 2 Class A
Programmable Relay Outputs	5; 30 V DC 1 Amp
Programmable Inputs	3; designed to be activated by voltage-free contacts
Network Connection	Optional network card provides communication for networking 127 fire control panels
NAC Synchronization	Internal Support of System Sensor, Wheelock, Gentex, and Amseco protocols
Operating Temperature	23°F to 120°F ( -5 °C to 49°C)
Operating Humidity	to 95% (non condensing)

## Product Code Configurator



Product Style

**TK-1-0-3-XX-LG-1**

### Loop Cards

Code	Description	Code	Description	Code	Description
H1	2 Loops - Hochiki Protocol	K1	2 Loops - Hochiki Protocol and Network	M1	2 Loops - Apollo Protocol and Network
H2	4 Loops - Hochiki Protocol	K2	4 Loops - Hochiki Protocol and Network	M2	4 Loops - Apollo Protocol and Network
H3	6 Loops - Hochiki Protocol	K3	6 Loops - Hochiki Protocol and Network	M3	6 Loops - Apollo Protocol and Network
H4	8 Loops - Hochiki Protocol	K4	8 Loops - Hochiki Protocol and Network	M4	8 Loops - Apollo Protocol and Network
H5	10 Loops - Hochiki Protocol	K5	10 Loops - Hochiki Protocol and Network	M5	10 Loops - Apollo Protocol and Network
H6	12 Loops - Hochiki Protocol	K6	12 Loops - Hochiki Protocol and Network	M6	12 Loops - Apollo Protocol and Network
H7	14 Loops - Hochiki Protocol	K7	14 Loops - Hochiki Protocol and Network	M7	14 Loops - Apollo Protocol and Network
H8	16 Loops - Hochiki Protocol	K8	16 Loops - Hochiki Protocol and Network	M8	16 Loops - Apollo Protocol and Network
I1	2 Loops - Hochiki Protocol and Media	A1	2 Loops - Apollo Protocol	N1	2 Loops - Apollo Protocol, Media and Network
I2	4 Loops - Hochiki Protocol and Media	A2	4 Loops - Apollo Protocol	N2	4 Loops - Apollo Protocol, Media and Network
I3	6 Loops - Hochiki Protocol and Media	A3	6 Loops - Apollo Protocol	N3	6 Loops - Apollo Protocol, Media and Network
I4	8 Loops - Hochiki Protocol and Media	A4	8 Loops - Apollo Protocol	N4	8 Loops - Apollo Protocol, Media and Network
I5	10 Loops - Hochiki Protocol and Media	A5	10 Loops - Apollo Protocol	N5	10 Loops - Apollo Protocol, Media and Network
I6	12 Loops - Hochiki Protocol and Media	A6	12 Loops - Apollo Protocol	N6	12 Loops - Apollo Protocol, Media and Network
I7	14 Loops - Hochiki Protocol and Media	A7	14 Loops - Apollo Protocol	N7	14 Loops - Apollo Protocol, Media and Network
I8	16 Loops - Hochiki Protocol and Media	A8	16 Loops - Apollo Protocol	N8	16 Loops - Apollo Protocol, Media and Network
J1	2 Loops - Hochiki Protocol and Network	L1	2 Loops - Apollo Protocol and Media		
J2	4 Loops - Hochiki Protocol and Network	L2	4 Loops - Apollo Protocol and Media		
J3	6 Loops - Hochiki Protocol and Network	L3	6 Loops - Apollo Protocol and Media		
J4	8 Loops - Hochiki Protocol and Network	L4	8 Loops - Apollo Protocol and Media		
J5	10 Loops - Hochiki Protocol and Network	L5	10 Loops - Apollo Protocol and Media		
J6	12 Loops - Hochiki Protocol and Network	L6	12 Loops - Apollo Protocol and Media		
J7	14 Loops - Hochiki Protocol and Network	L7	14 Loops - Apollo Protocol and Media		
J8	16 Loops - Hochiki Protocol and Network	L8	16 Loops - Apollo Protocol and Media		