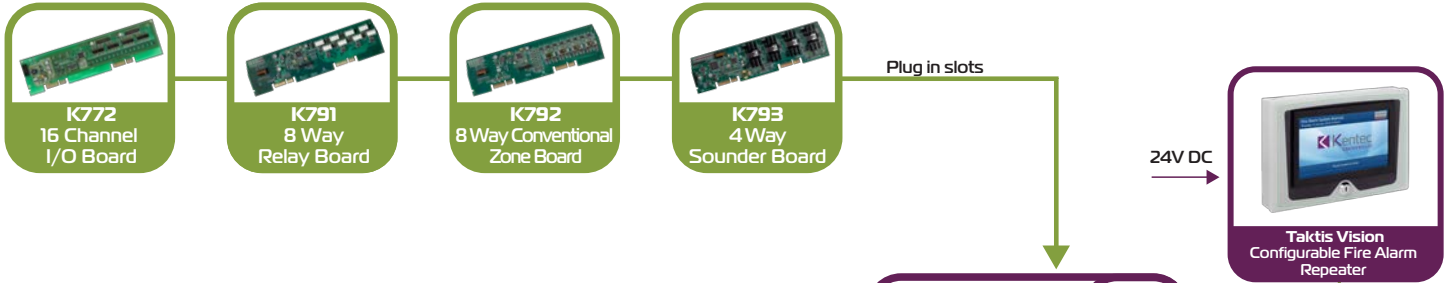# Kentec
Electronics Ltd

By Appointment to
Her Majesty The Queen
Supplier of Fire Detection Equipment
Kentec Electronics Ltd. Dartford

Presenting

Taktis

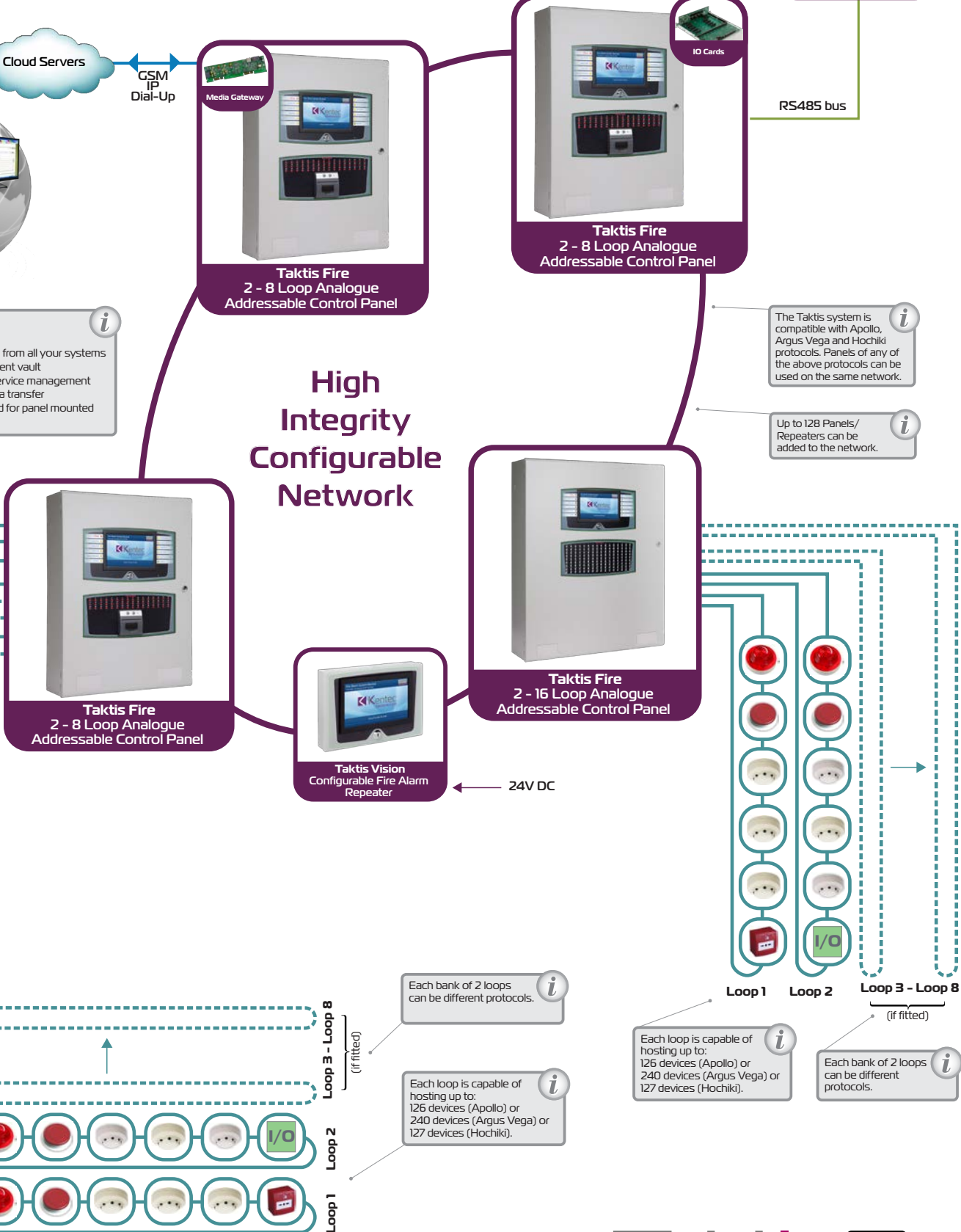Power, Intelligence......
with a sense of feeling

LPCB
LOSS PREVENTION CERTIFICATION BOARD
360b/01

K772
16 Channel
I/O Board

K791
8 Way
Relay Board

K792
8 Way Conventional
Zone Board

K793
4 Way
Sounder Board

Plug in slots

24V DC

Taktis Vision
Configurable Fire Alarm
Repeater

IO Cards

Cloud Servers

GSM
IP
Dial-Up

Media Gateway

Taktis Fire
2 - 8 Loop Analogue
Addressable Control Panel

Taktis Fire
2 - 8 Loop Analogue
Addressable Control Panel

RS485 bus

**High
Integrity
Configurable
Network**

Taktis Virtual Resource

VR Access - Access data from all your systems
VR Vault - Secure document vault
VR Service - Complete service management
utility with automated data transfer
VR Print - Eliminates need for panel mounted
printers

i The Taktis system is
compatible with Apollo,
Argus Vega and Hochiki
protocols. Panels of any of
the above protocols can be
used on the same network.

i Up to 128 Panels/
Repeaters can be
added to the network.

Taktis Fire
2 - 8 Loop Analogue
Addressable Control Panel

Taktis Vision
Configurable Fire Alarm
Repeater

24V DC

Taktis Fire
2 - 16 Loop Analogue
Addressable Control Panel

Loop 3 – Loop 8
(if fitted)

i Each bank of 2 loops
can be different protocols.

Loop 1

Loop 2

Loop 3 – Loop 8
(if fitted)

i Each loop is capable of
hosting up to:
126 devices (Apollo) or
240 devices (Argus Vega) or
127 devices (Hochiki).

i Each bank of 2 loops
can be different
protocols.

Loop 8

Loop 3 – Loop 8
(if fitted)

i Each loop is capable of
hosting up to:
126 devices (Apollo) or
240 devices (Argus Vega) or
127 devices (Hochiki).

Loop 2

Loop 1

I/O

Taktis

Power, Intelligence......
with a sense of feeling

Overview

The Taktis product range combines the very latest hardware and software to produce a control and indication system, which is powerful and sophisticated, yet simple to use and understand.

The large graphical touch screen provides a clear, uncluttered and intuitive interface so the end user requires minimal training.

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

Available in 4 slot and 8 slot variants, with each slot supporting a 2 loop detection card, the Taktis fire control panel ranges from 2 to 16 detection loops.

The generous quantity of sounder circuits, relays and inputs provided as standard can be further increased by the addition of one or mode Taktis I/O plug in expansion cards.

The Taktis Network Card allows networking of up to 128 panels and repeaters meaning that Taktis can provide reassurance to all building owners/ operators whether responsible for a small system or a large complex.

Taktis Vision panels can be connected to the Taktis network to provide a fully functional repeater in a compact enclosure.

Not only do the products and services offered under the Taktis brand provide solutions to the most technically challenging applications in life safety, Taktis will deliver added value through ease of use, displaying clear information ensuring that when an event occurs appropriate action is taken swiftly.

The Taktis Media Gateway provides a means for the system to transmit real information back to our dedicated server network. This data is then accessed using the Taktis Virtual Resource (VR) software suite via a web browser.

The remote management features offered by Virtual Resource can result in reduced fault calls, improved technical support, efficient and proven maintenance, reduction of unwanted alarms, a full audit trail and improved overall service to the end user.

Features

- Certified to EN54-2 & EN54-4
- 2 to 8 loop or 2 to 16 loop versions
- Multiple protocols supported on a single panel (in banks of two loops)
- 500 milliamp loop current
- 4 programmable sounder circuits each rated at 2.5 Amps
- 5.25 Amp or 10.25 Amp power supply options
- 3 programmable inputs
- 5 programmable relay outputs
- Up to 512 programmable I/O via optional plug in and serially connected expansion cards
- Hard wired fire and fault routing inputs and outputs

- 2 ancillary serial ports
- Modbus, LonWorks and BACnet interface options
- Modular electronics
- Over 4000 sub address points per panel
- NOT and TIME as well as COINCIDENCE, OR and AND operators in cause and effects
- Option to "invert" inputs and outputs
- Powerful, standard configuration templates
- Network up to 128 panels
- Configurable via USB port to PC or memory stick
- Expandable memory via standard SD card
- Optional Media Gateway communications card

At time of printing some features may not be fully implemented.

Connectivity

The Media Gateway card plugs into one of the panel slots and provides connectivity to our servers using IP, GSM or Dial Up connectivity

The Media Gateway card is also used to meet integration application requirements.

Taktis Display

Taktis utilises a full colour, 7" 800x480 touch screen graphical display to provide a clear, simple and intuitive user interface.

80 character zone location and 80 character device messages allow a clear, concise description of each detection device location to be configured.

Resistive touch screen technology permits control functions to be available, even when wearing protective gloves.

User Access

Access to the Taktis menu and control functions is provided by a unique 6 digit pass code or by the optional enable control key switch.

Up to 64 individual login accounts can be configured, with different profiles and access permissions.

Powerful, Network wide Cause & Effects

Taktis cause and effect capacity supports 5000 cause and effects comprising up to 40,000 inputs/outputs across the network.

The introduction of Groups in Taktis allows rationalisation and simplification of the system configuration.

Support for up to 5000 groups and up to 50,000 devices is provided.

Taktis Display – Function Buttons

Up to 24 customer specific function buttons may be configured to provide control, disablement and engineering functions.

The functions buttons can be configured to be either available or hidden for each log in profile.

Zone Indicators

Up to 144 zone indicators or 48 zone indicators plus panel printer are available.

Taktis supports up to 2000 detection zones and zone indicators.

Power Supply Options

Taktis is available with two power supply options, each available in 230V or 115V mains voltages

• 5.25A (supports up to 26Ah batteries)

• 10.25A (supports up to 45Ah batteries)

Note: The standard depth enclosure (150mm deep) houses up to 26Ah batteries and the deep enclosure (190mm deep) houses up to 45Ah batteries.

Backlight Control

The built in light sensor allows the display backlight can be configured to follow the ambient light levels or automatically dim after a period of inactivity.

Event Log

A 10,000 entry event log records all system activity to 1 second resolution. The log is held in secure memory and is retained when power is removed from Taktis.

Powerful filtering allows the log to be sorted by event type, between dates, by zone, by panel and by address.

Using the Loop Explorer 2 configuration program, the event log can be downloaded and stored as a comma separated values (csv) format

Printer Option

A 40 character front loading thermal printer prints all events as they occur.

The printer can also be used to print all/selected event log entries.

Expansion Options

Taktis I/O cards can be fitted in spare slots within the panel.

The family includes

• 8 way conventional detection board

• 4 way sounder output board

• 8 way volt free relay contact board

• 16 channel programmable I/O board

Technical info

2-8 loop (4 slot) Enclosure

Size	-	420mm (W) x 590mm (H) x 150mm (D) (Standard)
	-	420mm (W) x 590mm (H) x 195mm (D) (Deep)
Construction	-	1.2mm mild sheet steel
Cable entry	-	28 knockouts top, 18 knockouts back, 1 knockout each side

2-16 loop (8 slot) Enclosure

Size	-	537mm (W) x 716mm (H) x 150mm (D) (Standard)
	-	537mm (W) x 716mm (H) x 195mm (D) (Deep)
Construction	-	1.5mm mild sheet steel
Cable entry	-	50 knockouts top, 26 knockouts back, 1 knockout each side

All Models

Battery Capacity	-	Up to 26Ah batteries (Standard)
	-	Up to 45Ah batteries (Deep)
Finish	-	Epoxy powder coated
Colour - Lid & Box	-	BS 00 A 05 fine texture
Colour - Controls Plate	-	RAL7016
Power supply voltage	-	230V AC or 115V AC
Power supply rating at 24V DC		5.25A (charges up to 26Ah) or 10.25A (charges up to 45Ah)
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) as standard
Software zones	-	2000
Software groups	-	5000
Event log	-	10,000 events, 1 second resolution. Filterable and printable.
Detection loops	-	2 to 16 added 2 at a time (K758 dual loop cards)
Detection loop current	-	500 milliamps each
Sounder circuits	-	4 each rated at 2.5A, 24V DC, programmable
Auxiliary 24V supply 1	-	24V DC fused at 500 milliamps
Auxiliary 24V supply 2		24V DC fused at 500 milliamps
Default relays	-	Fault, Fire, Alarm, Programmable 1 and
	-	Programmable 2 (all re-programmable)
Programmable inputs	-	3, activated by volt free contacts
Auxiliary Serial port A	-	RS232 programmable
Auxiliary Serial port B	-	RS232 programmable
Ancillary I/O board serial port	-	RS485 programmable
Fire Routing (Ifam) serial port	-	RS485 programmable
USB host port	-	USB type A
USB device port	-	USB type B
Fire routing output	-	Monitored
Fire routing input	-	Monitored
Fault routing output	-	Monitored
Fault routing input	-	Monitored
Extinguisher output	-	Monitored
Extinguisher input		Monitored
Extinguisher fault input		Monitored