FIRE CONTROL PANELS – INTELLIGENT

TC5400 – 4 LOOP PANEL

4 LOOP INTELLIGENT
FIRE ALARM CONTROL PANEL

DESCRIPTION

The TC5400 Series Fire Control Panels is fully expandable from 1 to 4 loops and supplied with four on-board sounder circuits, 20 programmable zonal LEDs with slide-in labels, and 25 system LEDs for information purposes. There are also four programmable function buttons with LED indication for confirmation of operation.

The control panel consists of the latest dual flash-based microprocessor technology combined with a high resolution / high contrast graphical LCD display and tactile keypad providing a simple 'Select & Click' programming aid for engineer configuration and end-user operation.

Powerful cause-and-effect programming and enhanced trace diagnostics makes the panel suitable for a wide range of site applications from small to large complex multi-area systems. Fully programmable on-site via the on-board alphanumeric keypad, or PCNet Configuration Software.

PC SOFTWARE

An extensive suite of user-friendly Windows-based PC software programs has been developed to enhance your experience when using the TC5000 Series fire panels. The suite incorporates a number of different programmes to include a Configuration, Service, Logo and Virtual Panel Tool to allow the flexibility of the equipment to be fully explored.

NETWORK

Simply adding a network card allows the panel to communicate with any other TC5000/TC4000 Fire Panel, Remote Terminal, or Network Peripheral, such as ipGateway™ or BMS/Graphical Interface. The network operates as a true peer-to-peer system and can be configured in a fault-tolerant loop or radial format.

FEATURES

- Dedicated 1–4 Loop Control Panel
- EN 54 Parts 2, 4, & 13 Approved
- Global Compliance
- 3 Year Warranty
- Programmable Push-buttons
- Multiple Languages
- Fully Networkable
- 20 Zonal / 25 System LEDs with slide-in labels
- Compatible with Apollo Discovery and XP95 protocols

KEY FEATURES

- Fully expandable from 1–4 loops via plug-in loop driver boards.
- Dedicated loop driver for Apollo protocol support.
- Advanced graphical LCD user interface and support for up to 200 fire zones by default, allowing full EN 54 compliance without additional hardware expansion.
- Dual flash-based micro processor technology with Real-Time Clock on-board.
- Dedicated USB & RS232 serial port for direct PC or modem connection.
- Installer friendly auto-learn, loop detection and on-board Scope facility for ease of commissioning and fault finding.
- Fully programmable via the on-board alphanumeric keypad or PC configuration tools.
- The graphical display can be configured to operate with virtually any language or character set, and allow the installer's logo to be applied using the Logo application software.
- Robust removable equipment chassis with plug-in connectors for simple fixing and cable termination.
- Rack-mount options available.
- Integral P-Bus for system expansion via available option cards.
- Connection to the AdNet Peer-to-Peer Network is achieved using a simple plug-in network card allowing the system to share up to 2,000 zones with full cross panel reporting, control and site-wide cause-and-effect functionality.

TECHNOSWITCH
FIRE DETECTION & SUPPRESSION

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SPECIFICATIONS

Base Technology	Dual flash-based Processors with Real-Time Clock, Trace Diagnostics, Programmable Languages and Character Sets
Display	White Backlit 240x 64 Graphical LCD
LED Indicators	24 Red (23x Fire, 1x Alarm); 1 Green (Power); 25 Amber (Fault & System)
Controls	Alphanumeric keypad permitting Navigation, Reset, Mute, Silence, Resound, Evacuate and 4x Programmable Push Buttons
Protocols	Apollo XP95 and Discovery
Number of Fire Zones	2,000 (200 per individual panel)
Number of Loops	1-4 Loops
Devices per Loop	126
Loop Current	500 mA per loop
On-board Sounder Circuits	2x 1 Amp Programmable
On-board Relays	2x 1 Amp 30 V AC/DC Programmable (10 mA, 5 V min) – Expandable using AE-TCP-507
Auxiliary Supply	1x 24 V 500 mA
Programmable Input	1x Monitored Programmable Input On-board
Programmable Key Switch Inputs	8 Volt Free Digital Inputs
Total Available Output Currents	3 A Maximum Available for Loop Current + Sounder Outputs + Auxiliary Supply
Mains Supply	200–240 V 47-63 Hz AC (+10 %, -15 % tolerance) 1.0 A Max
Battery Capacity	24 V / 12 Ah Internal (max); Large Enclosure: 24 V / 18 Ah Internal (max)
Charger Current	2 A Temperature Compensated
Serial Ports	1x On-Board RS232 connection for PC, Modem, IP, or Portable Printer
USB Interface	1x USB B-type connection for PC Communication
Programming	On-board keypad or PC running Windows Tools
Event Log	5,000 Event & Diagnostic + 500 Fire
Networking	Optional plug-in Network Card (AE-TCP-503 Standard, or AE-TCP-509 Fault-Tolerant)
Printer	On-board optional
Enclosure / Colour	Steel IP30 / RAL7035
Cable Entry	17x top & 11x rear
Size H x W x D mm	340 x 430 x 115; Large Enclosure: 470 x 450 x 115
Metalwork Options	Flushing Bezel, Battery Box and Rack Mount
Standards	EN 54-2:1998, EN 54-4:1998 & EN 54-13:2005

ORDERING INFORMATION

Product Code	Product Description
AE-TC5401	4 Loop Intelligent Control Panel c/w 1 Loop Card .
AE-TC5402	4 Loop Intelligent Control Panel c/w 2 Loop Card
AE-TC5403	4 Loop Intelligent Control Panel c/w 3 Loop Card
AE-TC5404	4 Loop Intelligent Control Panel c/w 4 Loop Card – Large Enclosure available on request
AE-TCP-503	Standard Network Card (for TC4000/5000 panels)
TC-AE-MXM-503	Semi-Flush Bezel for TC5000 Large Enclosure

SPARES

Product Code	Product Description	Product Code	Product Description
AE-TCP-502	Single Loop Driver Card	AE-TCS-012	Advanced Spare Access Enable Key
AE-TCS-503	TC5000 4 Loop Base Card	AE-TCS-014	Advanced Spare Panel Door Key
AE-TCS-504	TC5000 Graphic Display Card	AE-TCS-013	Advanced Spare Panel Lock & Key

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