Silver-Tec

Instrumentation for your safety ...

Fire Alarm Panels
ST-7000 Series

apollo
WORLD CLASS FIRE SOLUTIONS

ARGUS SECURITY

HOCHIKI   NITTAN

ST-7000 Series Fire Alarm Panel

ST-7000 is our highest performance, analogue addressable fire panel and is fully approved to EN54 Parts 2, 4 and 13.

VdS

EN 54-2, 4 & 13

Features

- 1, 2, 4 or 8 loop formats
- Up to 254 devices per loop (protocol dependent)
- Up to 2,000 fire detection zones
- Over 200,000 devices per network
- True peer-to-peer networking
- Networkable up to 200 nodes
- Supports intelligent remote terminals, BMS interface, IP Gateway and I/O programmable I/O devices
- Built in oscilloscope, voltage and current meters
- Circuit monitoring from any panel or repeater
- On board or optional remote battery temperature sensor
- Direct USB and RS232 PC connections
- Simple select and click programming and configuration

- Autolearn and Loop Detection
- Quick start and protect - a working system after an Autolearn
- Peripheral expansion built in
- 20 built-in, fully programmable LEDs
- 4 programmable push buttons
- 5,000 event log entries
- Complete device history from each panel
- 200 programmable false alarm management areas per panel
- Programmable screen logo
- Timed enablement of isolated zones, input and output devices
- Compatible with Apollo Discovery and XP95, Argus Vega, Hochiki ESP and Nittan Evolution protocols
- Approved to EN54 Parts 2, 4 and 13

- ST-7000 Diagnostics includes 'scope on board'

Why do I need Part 13?

Part 13 compliance ensures that a fire system will continue to perform to its maximum capability during a fire situation. Increased current in alarm conditions combined with a high resistance connection

(e.g. an incorrectly tightened screw in a sounder base), could prevent the sounders and beacons from operating on what would have incorrectly appeared to have been an acceptable 'fault free' installation.

ST-7000 is one of the few EN54 Part 13 approved panels available. ST-7000 continuously monitors all transmission lines for compliance, checking and reporting faults every minute of every day.

ST-7000 Series Fire Alarm Panel

ST-7100 - 1 Loop

- Single loop
- Small enclosure
- Maximum 7Ah internal batteries
- 20 programmable LEDs
- Optional programmable key switch
- Programmable Input
- Medium, Large and Deep enclosure options

ST-7200 - 2 Loop

- One or two loops
- Medium enclosure
- Maximum 12Ah internal batteries
- Up to 50 additional programmable LEDs
- Up to 8 programmable key switches or 4 plus printer
- Plexi-glass door option
- Large and Deep enclosure options

ST-7400 - 4 Loop

- One to four loops
- Large enclosure
- Maximum 17Ah internal batteries
- Up to 200 additional programmable LEDs
- Up to 8 programmable key switches or 4 plus printer
- Plexi-glass door option
- Deep and Extended enclosure options

ST-7800 - 8 Loop

- Two to eight loops
- Extended enclosure
- Maximum 45Ah internal batteries
- Up to 200 additional programmable LEDs, 2 x switch cards or mimic
- Up to 8 programmable key switches or 4 plus printer
- Plexi-glass door and external battery box option

ST-7000 - Integrated Peripheral Bus

- Integrated P-Bus as standard on all ST-7000 panels
- Up to 32 expansion cards can be added to an ST-7000 panel
- Peripheral expansion option cards include
    - 4 way relay card
    - 4 way sounder card
    - 10 way monitored input card
    - Conventional zone card (8 class B or 4 class A zones + 3 programmable relays)
    - 16 way push button/48 LED card
    - 16 way input/48 output (direct drive LED outputs)
    - Fire and Fault Routing/Protection Card
    - Redundant Controller

ST-7000 - Rack Mount

- Rack mountable control panels
- Additional 16U and 20U high IP55 enclosures
- Rack mount peripheral chassis plate, LED and switch card module options
- Dedicated Mimic door option

ST-7000 Series Fire Alarm Panel Networking

Networking allows all ST-7000 series control panels and network peripherals to be connected together using standard fire resistant two-core cable. It provides both the benefits of distributed intelligence and reduced installation costs whilst catering for the smallest two-panel network through to the largest 200 panel, wide-area, networked system. The network operates as a true peer-to-peer system and is therefore not reliant on a single 'master' panel to function. It allows information from any input or output device to be passed over the network and displayed on any ST-7000 control panel as required. Details include Fire, General Alarm, Pre-alarm, Fault, Control Inputs and Disablement as well as analogue values, test instructions and status information.

The zoning facility allows the networked system to share up to 2,000 zones giving non-confusing indication and allowing true peer-to-peer cross panel report, control and site-wide cause and effect functionality.

All panels provide valuable diagnostic and status information and also have the facility to prevent the transmission of fires or faults during commissioning. For more complex systems, our software tools allow for easy configuration of complicated cause-and-effect, whilst all the configuration data is contained within one user-friendly network configuration file.

ipGateway

ipGateway provides a secure, remote internet connection to the ST-7000 fire system via a standard web browser. No special software is required.

The state of each device on the network is displayed and users can Enable/Disable zones, Enable/Disable devices, Reset, Mute, and Silence/Resound sounders on the network.

The ipGateway can also be configured to react to events on the network by sending emails or SMS messages to configured recipients.

PC-Net Graphical Control Software

• Highly configurable to specific system

• Our graphical control software monitors the entire fire system through site maps, text and icons

• Users can isolate by selecting icons and devices

• Fire panel controls include Mute, Silence, Re-sound, Reset, Disable/Enable and Evacuate

• Event reports and log with analysis features

BMS Interface

The BMS Interface allows any ST-7000 system to interconnect and communicate with independent 3rd party BMS (building management systems) as well as PC based graphical control systems. This allows the fire system to be managed using existing fire or facilities management systems.

Physical connection to the external system is via a serial connection allowing the external BMS/Graphics systems to issue commands and receive information whilst the BMS interface handles all network traffic and event prioritisation. Multiple BMS interfaces can be connected to an AdNet network allowing independent connections to a wide range of control systems.

ST-7000 Series Fire Alarm Panel Software

The software package comprises of a range of specific tools enabling the user to carry out set up, maintenance, and servicing of the ST-7000 panel

Config Tool

• Full configuration of single panel or network system

• Automatic design check of site configuration

• Assistants menu helps the engineer to easily configure panels

• Import, export information and print configuration reports
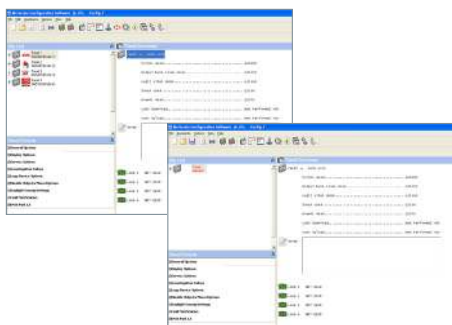
Service Tool

• Extract device information and event logs from single or multiple panels

• Device history including last activation, test, enable, disable and date created

• User defined filters allow data to be grouped and searched in many different ways

• View device status, analogue values and drift (contaminated) information

• Network simulation and test feature

• Categorise events and create User defined reports
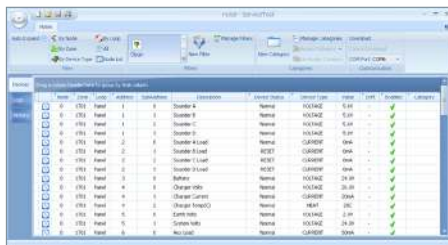
Terminal Tool

• Virtual panel display supports remote interrogation

• Direct USB/RS232 or remote Modem/IP connection

• Real time status information and control

• Event log can be downloaded

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