

# Syncro Net

## Syncro Networking

### Product Overview

The flexibility of the Syncro system can be further enhanced by connecting control panels and repeaters together using a high integrity network.

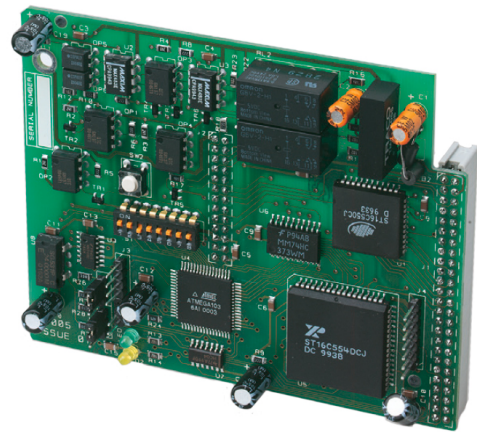
A simple 2-wire connection between each panel allows events to be transmitted to other parts of the system to provide indication or control on a system wide basis.

Using the Loop Explorer configuration programme, up to 64 nodes can be programmed to respond in a variety of ways to any system events as required.

This flexibility extends the comprehensive cause and effect programming capability of Syncro control panels to the entire network allowing actions, test modes or disablements to be started from any point.

The fault tolerance of the network is such that any single open or short circuit fault will not result in any loss of information. Multiple faults are isolated and the network breaks into smaller networks which continue to work autonomously.

With regards to the design of fire systems for larger sites its widely acknowledged globally that instead of producing ever larger loop capacity panels a modular/networked peer-to-peer approach provides a more evenly distributed system. Typically in the past a large system for a 10 storey building may have been designed with a single 10 loop panel. This type of centralised system is far more susceptible to a single critical fault like for instance a display board or maybe a motherboard failure, indeed it could even a structural issue at the location of the FIP. This could leave the whole system incapacitated for a duration of time until a replacement or repair can be made. But the same site suffering the same failures but instead installed with five 2 loop Syncro panels located evenly throughout the 10 floors, would not only incorporate shorter loop cable runs but would in this instance only result in the system either missing 1 of 5 displays or in the worst case scenario have a maximum of two loops non functioning. But the Syncro network would largely remain functional across the rest of the site due to its distributed design.

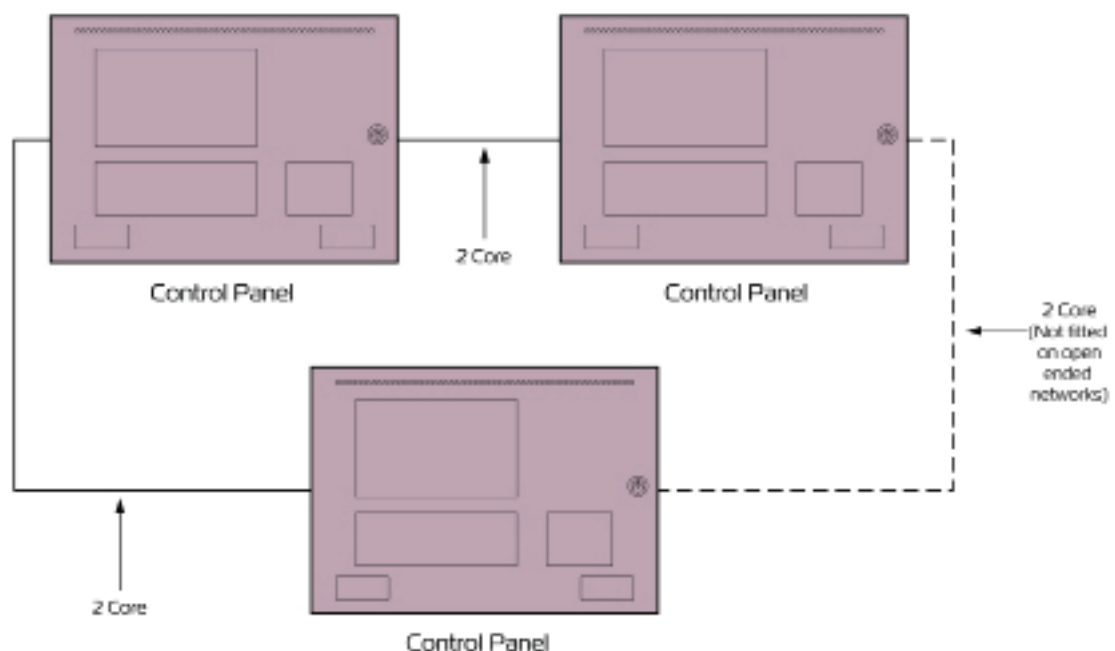


Syncro-K555

### Standard Features

- \* Up to 64 nodes
- \* High integrity protocol
- \* Fully secure against short or open circuit faults
- \* Simple 2-wire loop connection
- \* Supports open ended networks for retrofit applications
- \* Repeaters share network connection
- \* Network wide test and disablement functions
- \* Network wide cause and effect logic
- \* Flexible configuration options
- \* Panels configurable to act on network events or not as required
- \* Hochiki panels supported on single network

Two core loop wiring ensures network integrity by providing full isolation of faulty wiring segments.



## Technical Specifications

<b>Product code</b>	<b>SYNCRO-K55</b>
<b>Protocol</b>	<b>RS485</b>
<b>Connection</b>	<b>Two wire loop</b>
<b>Current Consumption</b>	<b>40mA</b>
<b>Integrity</b>	<b>Full isolation of faulty nodes or wiring segments</b>
<b>Indicators</b>	<b>Data In and Data Out communications status</b>
<b>Cable length</b>	<b>200 metres to adjacent nodes</b> <b>(subject to cable type) (see technical manual)</b>
<b>Cable type</b>	<b>Belden 9271, Belden 9860, FP200 Gold</b>

Flexible network configuration options using simple to follow PC configuration programme

