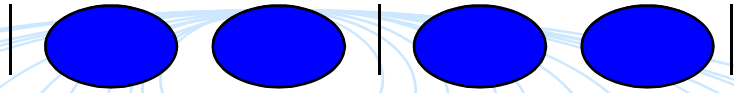
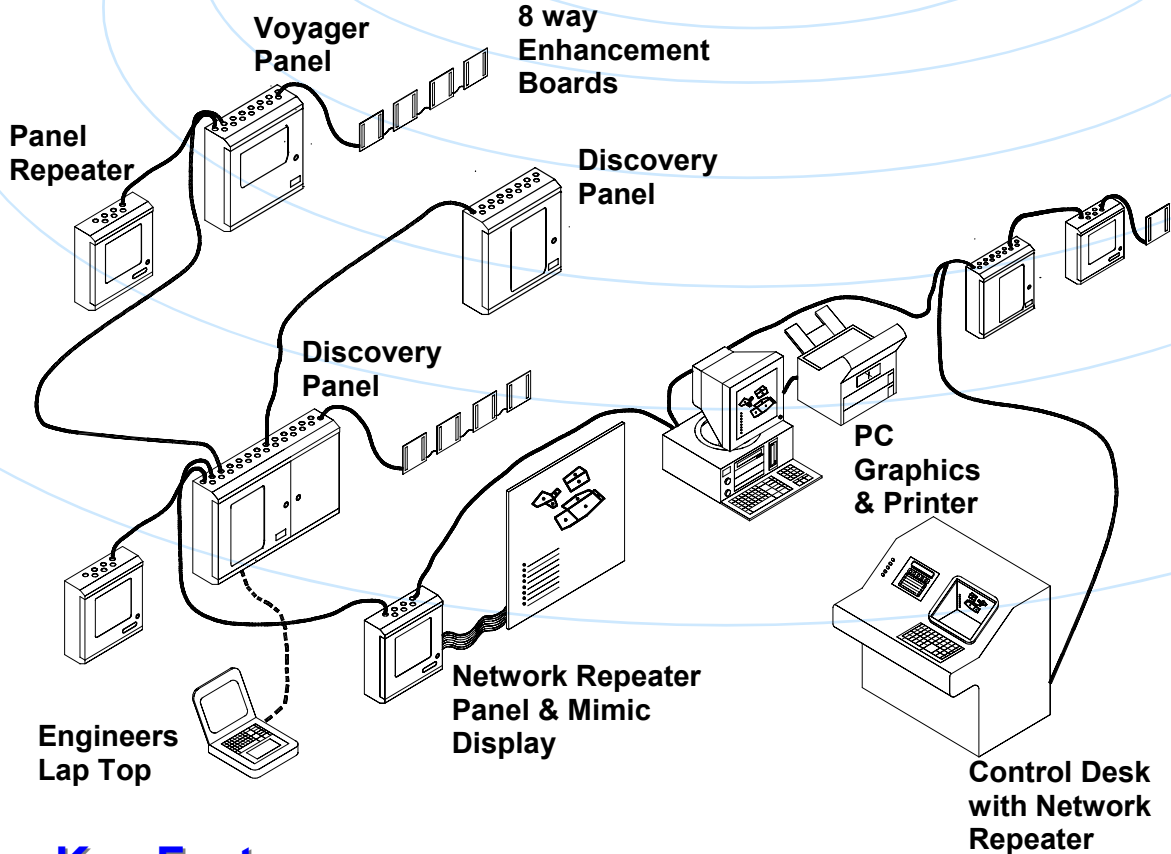


# Integra Network



*For Apollo Protocol Analogue Addressable Control Panels*



## Key Features

- "All talk - selective listen" Peer-to-Peer network wide communication
- No Master panel or P.C. required and thus no single Device of failure
- Network together: -
  - Voyager panels
  - Discovery panels
  - Network repeaters
  - Alarm manager graphics systems
- Up to 15 active panels or 60 loops may be networked together plus an additional 17 passive nodes
- Voyager panels, Discovery panels, Network Repeaters and Alarm Manager graphics systems may be configured as active or passive

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## Introduction

The Integra network system has the facility to monitor, indicate and control the functions of a fire alarm installation, thus allowing signals to be distributed around a large site.

The network operates as a global communication system and does not require a master panel or computer. This approach reduces cost and no single panel/equipment failure will disable the entire system.

Each item of equipment connected to the network is referred to as a node. Each node can be either active or passive. Up to 15 active nodes plus an additional 17 passive nodes may be connected.

Each node is programmed independently to listen, respond to, or ignore any or all of the messages sent by the other nodes on the network.

The network uses RS 485 data communication. Up to a total network cable length of 5km is possible. All panels will continue to function in stand-alone mode, even if the network fails.

The use of a networking system will allow individual parts of the site to be installed and commissioned prior to connection to the network.

The operation of the network is such that each node has total stand alone capability in that its local operation is not directly affected by its connection to or disconnection from the network. The ability of a local control panel to observe events means that it can be programmed to respond to events elsewhere on the network. The effect of this capability is that any control panel is able to respond to any sensor device connected anywhere on the network. This provides a possible effective 60 loop control panel distributed around a single site as a number of smaller units. Network repeater panels provide the ability to observe and control elements of the network via a compact unit which may be conveniently mounted at manned control points and still provide all essential display and control facilities.

Network communication takes place over a single pair of wires providing a link to all nodes.

The overall concept can be described as 'all talk - selective listen', which means that every event that occurs on any node is transmitted into the network. Each node then decides (via programming) whether or not it is required to take any action. During quiescent conditions all active nodes signify their presence on the network by generating default messages.

From the UK's leading control panel manufacturer

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