

VELOX 4120 - 4121

Velox BMS/ Graphics Interface Panel



Power of One

The BMS / Graphics Interface allows BMS systems or Graphical PCs to be integrated with the 4000 series of fire control panels and remote terminals. 4120 or 4121 units collect data of Fire & Fault from all the panels on Network & feeds it to BMS Systems or Graphics software.

The interface is an integral part of the Velox Apex network permitting the handling of all network traffic and event prioritisation, via a PC, using a simple RS232 connection.

Multiple interfaces can be connected to the network catering for sites requiring control from a number of Graphical PC's or BMS Systems.

Graphical PCs with Windows OS needs a Velox Graphical Software & RS-232 Com port for communication with 4120 / 4121 units.

BMS Systems needs a 4130 Velox BACNET/MODBUS IP Integrator for communication with 4120 / 4121 units.

Single unit of 4120 or 4121 can collect data from 200 panels using the same Velox Apex network making it true 'Power of One' device.

VELOX Apex Network Topology

The VELOX fire detection and alarm system, with its unique features reside at the apex of detection technology in the market. The VELOX network of fire panels can integrate 200 panels over a 20Km peer-to-peer topology, sharing over 1000 zones of total 200,000 connected devices. This massive network shall require intelligent remote controls that allows local decision to control virtually any device on the VELOX network.

Features

- Fully connected on the same 2 core VELOX network
- Programmable display information
- Up to 199 can be connected on the VELOX secure network
- Can provide full display & control over 1000 zones network wise
- Fully programmable via on-board alphanumeric
- PC configuration tool.
- Sector based programming
- Each BMS interface is individually programmable with the available dynamic cause-and-effect rules.
- Standard & Fault Tolerant (FT) Network versions

Zero Downtime

Each BMS Interface Panel on a redundant VELOX network is fully equipped with isolators to protect the integrity of the network. In case of any short or open on the redundant VELOX panel network, no terminal or panel shall be lost, which further enhances the network security.

Physical Construction and Assembly

The VELOX BMS Interface Panel are supplied with metal enclosures. The Remote Terminal operates on 24VDC, which can be supplied either locally, or via extra cores on the network cable. All the Remote Terminals have 2 level access to secure the operation, or can be provided via key-switch input.

Network Connection Can't be Easier

The unique VELOX network can expand from 50 radial network up to 200 fully redundant network. This shall cater for both small to large network requirements.

The VELOX 4120 is supplied with its own on-board network card connection, for enhanced simplicity. 4120 has on-board Standard Network Card & 4120 has on-board Fault Tolerant network card.

Easy Configuration

Configuring 4120/4121 units is simple using Velox 4000 Configuration tool software, just connect a Windows PC with Velox Config tool software to 4120/4121 unit using RS-232 cable.

Technical Specifications

Item	Specification Detail
Supply Voltage Input	18-28V DC
Operating Temperature	-5°C to 50°C
Relative Humidity	95% non-condensing (maximum)
PCB H x W x D mm	88 x 242 x 18
Indications	On-board LED indicators for heartbeat, network transmit/receive and RS232 transmit/receive
Supply Current	Standard 48mA (/FT 86mA) at 24v DC
Serial Interface	Isolated RS232 interface for BMS/PC
Fault Input	Monitored volt free clean contact
Enclosure H x W x D mm	218 X 300 X 45
Weight	2 Kg

Order Codes

Part No.	Description
4120	BMS/Graphics interface card (standard network interface)
4121	BMS/Graphics interface card (fault-tolerant network interface)