

#### Simplex 4120 Fire Alarm Network

4120 Network Applications, Communications, Options and Specifications

#### **Features**

# 4120 network communications among system fire alarm control units provide:

- Support for up to 99 nodes per network loop to provide network emergency voice broadcasts and centralized command center operations
- Multiple network loops for campus and other high panel quantity applications
- Network-wide initiation of alarm silence, acknowledge, and reset, and investigation of status and details of system points and point lists.
- Distributed system operation to ensure excellent survivability: during a communications fault condition. Network nodes remaining connected will regroup and continue communicating.
- Flexible network annunciator options such as TrueSite workstations, network display units (NDU) and NDUs with voice command center (NOO)
- Use of InfoAlarm command center equipped nodes to provide increased network information display capability
- Network level command and control provides manual point control for on/off or disable/enable, as well as gathering specific point detail

# Simplex 4120 fire alarm network communications are available for wired or fiber optic connections

- Wired communications are available on network interface cards (NCS), available with either wined connections only, or as a modular design allowing selection of either wined or fiber optic media modules.
- Fiber optic communications are available with fiber media modules on the NIC or when using the higher performance multiple signal fiber optic moderns
- Fiber optic links are point to point continuous (unswriched) connections between fire alarm network nodes
- LEO status indicators assist with system setup and servicing.

#### Modular network interface cards details

 Class B or Class X network communications using wired or fiber optic media modules; selectable separately to match media requirements.

#### Wired media module details

- Provides isolated earth detection
- Compatible with Simplex isolated loop and over-voltage protectors.
- Electrical characteristics are similar to RS-485.

#### Duplex fiber optic media module details

- Riber optic links provide immunity to electrical transients, short circuits, and ground conditions
- Laser based fiber optic media modules use one multi-mode or one single-mode fiber to communicate; includes a single type SC connector compatible with 62.5r125µm or 50r125µm multi-mode fiber, or 5r125µm single-mode fiber.
- Onboard diagnostics provide information regarding the performance and health of the fiber link.

#### Multiple signal fiber modern details

- Laser based half-duplex communications for a variety of signal combinations over a single fiber connection.
- Available for single mode or multi-mode fiber
- Increased transmission distances compared to copper wiring (over 20 miles (32 km) may be possible with low-loss single-mode fiber)
- Multiple signal moderns can be mounted within the cabinet for 4100.

series control units. For other compatible fire alarm control units external cultimets are available. Rease refer to datasheet \$4100-0049 for details.

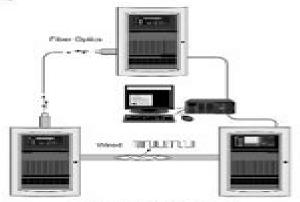


Figure 1: Fire alarm network communications, wired or fiber optic

#### Physical bridge modules connect multiple network loops and provide star topology connections

- Physical bridge modules connect to network communications using wired or fiber optic media and interconnect using modern media modules. Refer to datasheet \$4100-0057 for details.
- TCPVIP physical bridge modules are similar but provide local area network (LAN) compatible interconnections. Refer to datasheet. 54700-0029 for details.

#### Network diagnostics include:

- Attendance and polling error logging.
- LEO status indications on interface board
- Synchronized time and date allowing precise data logging.

#### Listings information

Applicable listings for 4120 network control units and accessories:

- UL 864, Fire Detection and Control (UOSZ), Smoke Control Service (UUKL), Releasing Device Service (SYZV)
- UL 1076, Proprietary Alarm Units Burglar (APOU).
- UL 2017, Process Management Equipment (QWAX), Emergency Alarm System Control Units (PSZI)
- U. 1730, Smoke Detector Monitor (UULH)
- UL 2572, Mass Notification Systems (PGWM).
- CAN/ULC-SS27 Control Units for Fire Alarm Systems (UO)(27), Releasing Device Service (SY2V7)
- ULC/ORD-C1076 Proprietary Burglar Alarm Units and Systems (APOUT)
- ULC/ORD-C100 Smoke Control System Equipment (UUVL7)

# **Simplex 4120 Manual**

**G Psacharopoulos** 

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