



SED2 VFD LON Interface Option

Description

The LONMARK® certified SED2 LON Interface Option provides direct digital control of SED2 Variable Frequency Drives (VFDs). The SED2 VFD is designed to reside on a LONWORKS® network, providing seamless interaction with all LONMARK products from multiple vendors. The SED2 LON Interface Option offers a cost-effective solution by reducing system installation and by allowing direct integration to control systems.

Features

- Conforms to and is certified to the LONMARK interoperability guidelines, enabling information sharing with other LONMARK products.
- LONMARK-compliant with variable speed motor drive profile number 6010.
- Modular snap-on design for simple installation and easy control system integration to any existing or new SED2 VFD.
- Uses Standard Network Variable Types (SNVTs) for communication, allowing the SED2 VFD to be configured, controlled, and monitored via the LonTalk® network.
- 48 SNVTs preconfigured for control/monitoring.
- Field-selectable SED2 VFD parameters allow entry and updating of setpoint and control parameters.

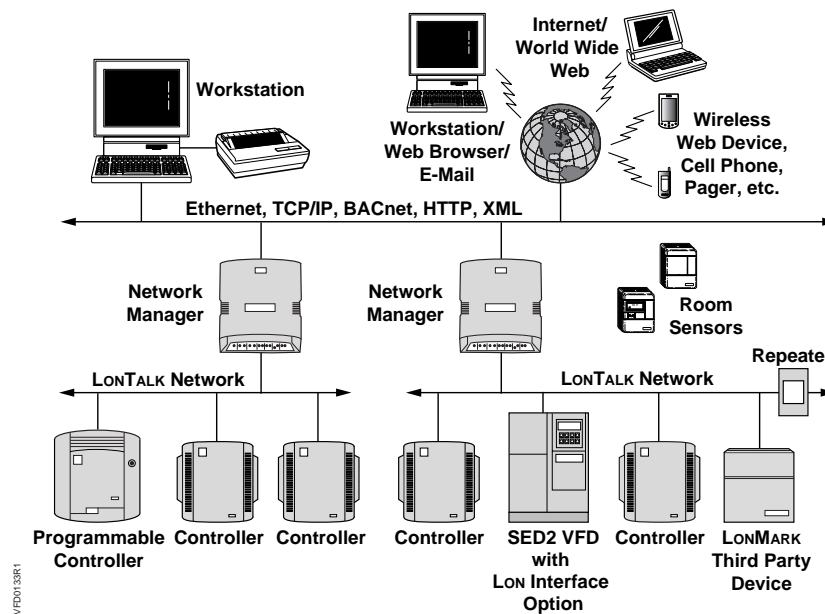


Product Number

□ SED2-LONI/F

Applications

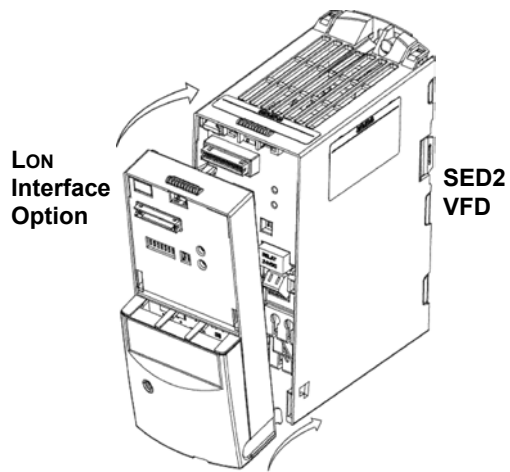
- SED2 VFDs provide non-complex control solutions for fans and pumps in HVAC applications.



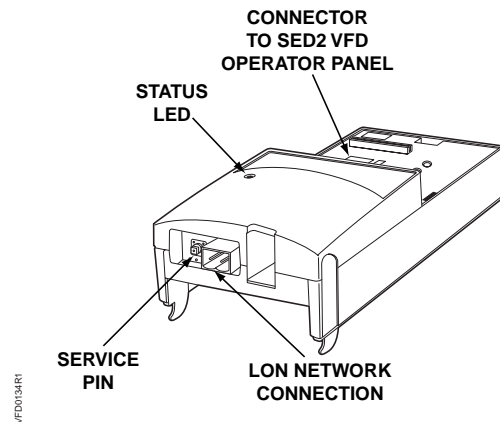
Typical System Architecture.

Technical Data

Processor Type	Neuron® 3120®
Processor Clock Speed	40 MHz
Memory Size	16 KB ROM, 2 KB RAM
Network Communication Speed	78 Kbps (FTT-10)
Node Identification	Fixed, unique Neuron ID, software configurable node ID
Status LED	Tri-color (green, orange, red) LED provides indication of current operating status
Service Pin	Provides external activation of service pin message
Network Terminator	Bus Topology: 105 ohm at both ends Free Topology: 52.3 ohm close to the center of the network
Output Rates	Bi-directional and configurable transmission rates for output network variables
Dimensions	6-11/32 in. (161 mm) high 2-7/8 in. (73 mm) wide 1-23/32 in. (43.5 mm) deep
Physical Interface	Free Topology: FTT-10
Interface	Uses Standard Network Variable Types (SNVTs) exclusively
Connector	Short-circuit proof, isolated, FTT-10 bus connector
Configuration	All drive parameters can be updated through network variables
Feedback	Monitor actual values and drive status on output network variables
Control	Drive control and frequency references are available through input network variables



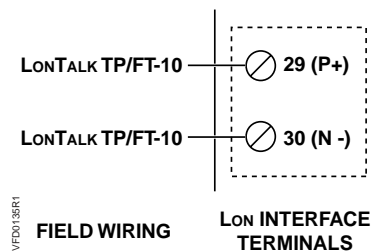
Typical Installation.



Network Connection on Bottom of LON Interface Option.

Reference Documents

- SED2 VFD Submittal Sheet, 154-042
- SED2 VFD Bypass Option Submittal Sheet, 154-044
- SED2 VFD Operation & Maintenance Manual, 125-3202



Wiring Schematic.

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