

# Desigo® Fire Safety

## SAFEDLINK / FCnet Network Module

### Model FN2001-U1

#### Architect & Engineer Specifications

- Supports 'peer-to-peer' networking between the following:
  - Models FC2025 / FV2025 and FC2050 / FV2050 fire alarm control panels (FACPs)
  - Model FT2050 fire terminal unit
- Electrical isolation between the system bus and FACP
- System-bus input / output connections
- Fast data transfer
- Holds up to 16 network nodes
- Style 4 or Style 7 wiring
- Ground-fault monitoring
- Integrated degrade-mode function
- UL 864 10th Edition Listed, ULC-S527 Listed
- FM, CSFM and NYC Fire Department Approved

#### Product Overview

The SAFEDLINK network module (Model FN2001-U1) is used to network up to 16 FACPs and the fire terminal unit (Model FT2050), via the FCnet system bus. The SAFEDLINK network module plugs into the Operating Unit (Model FCM2018-U2 or Model FCM2019-U2).

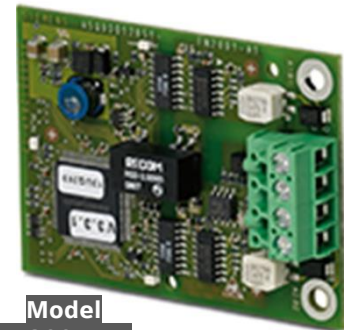
Model FN2001-U1 supports 'peer-to-peer' networking between the following systems:

- Models FC2025, FV2025
- Models FC2050, FV2050
- Model FT2050

The Model FN2001-U1 connects to system-bus inputs and outputs. The module has ground-fault monitoring and an integrated degrade-mode function. Redundant networking is accomplished with one (1) network module per panel [simple loop trouble].

There is an electrical isolation between the system bus and the FACP. Programming software is held in flash electrically erasable programmable read-only memory (EEPROM).

Model FN2001-U1 is CSFM (#7165-0067:0264); FM (#3010) and FDNY (#6104) Approved.



**Model  
FN2001-U1**

#### Temperature and Humidity Range

Model FN2001-U1 is UL 864 10th Edition Listed for indoor dry locations within a temperature range of 120+/-3°F (49+/-2°C) to 32+/-3°F (0+/-2°C) and a relative humidity of 93+/-2% at a temperature of 90+/-3°F (32+/-2°C).



Technical Data		
<b>Supply Inputs</b>		
Operating Voltage:	20.4 — 30 VDC	
Operating Current:	45mA, max.	
<b>System Bus</b>		
Voltage:	5VDC	
Power	100mA, max.	
Impedance	120 Ω	
Cable Types	Shielded and unshielded	
Protocol	SAFEDLINK (UDP / IP)	
Data Rate in Operation Mode:	Speed	312 kilobytes per second
	Distance	96 kilobytes per second
Distance between two (2) network modules:	3,281 ft. (1,000 meters), max.	
Electrical isolation: {between FCnet and the FACP}	1 kV	
Monitored for:	<ul style="list-style-type: none"> <li>▪ Short-circuit</li> <li>▪ Open loop</li> <li>▪ Ground fault</li> <li>▪ Communication error</li> </ul>	
<b>Connections</b>		
System Bus:	<ul style="list-style-type: none"> <li>▪ Design</li> <li>▪ Admissible cross-section cable</li> </ul>	
	14 — 22 AWG [American Wire Gauge]	
Operating Unit	Plug-In-Type Connection	

Physical Properties	
Dimensions { W-x-H-x-D }	2" —x— 2.8" —x— 0.8" (5.0 cm. -x- 7.0 cm. -x- 2.0 cm.)
Weight	0.44 Lbs. (20g)

Details for Ordering		
MODEL OR TYPE	PART NUMBER	PRODUCT
FN2001-U1	S54400-A60-A1	SAFEDLINK Network Module

Related Documentation	
Product	Data Sheet Number
Fire Terminal Unit	6803
Desigo Fire Safety 252 / 504-point Addressable System	6815
Desigo Fire Safety Intelligent Voice Communication System	6821

**NOTICE** – The information contained in this data-sheet document is intended only as a summary, and is subject to change without notice. The product(s) described here has/have a specific instruction sheet(s) that cover various technical, limitation and liability information.

Copies of install-type, instruction sheets – as well as the *General Product Warning and Limitations* document, which also contains important data, are provided with the product, and are available from the Manufacturer.

Data contained in the aforesaid type of documentation should be consulted with a fire-safety professional before specifying or using the product.

Any further questions or assistance concerning particular problems that might arise, relative to the proper functioning of the equipment, please contact the Manufacturer.



## Desigo® Fire Safety

Siemens Industry, Inc.  
Smart Infrastructure - Building Products  
8 Fernwood Road • Florham Park, NJ 07932  
Tel: (973) 593-2600

September - 2021  
(Rev. 6)