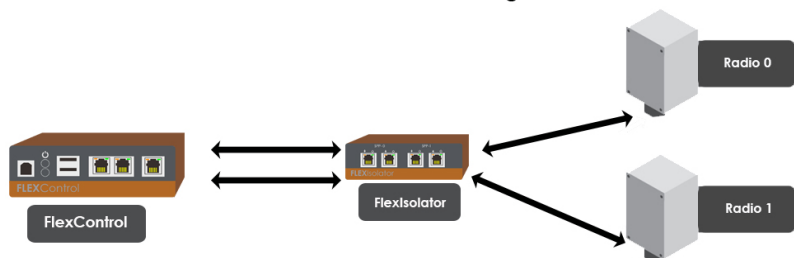


Flexisolator

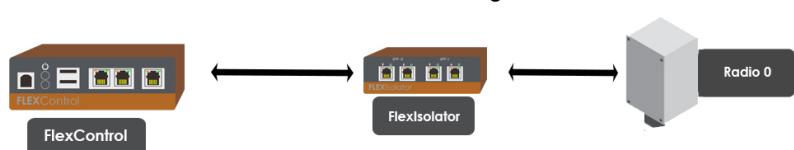
The Sensys Networks Flexisolator module provides both safety and length extension for the FlexControl[†] to Radio wired interface. The Flexisolator provides two independent isolator ports, one for each Radio connection.

A typical FlexControl system consists of one FlexControl and two Radios with one Flexisolator. The system can also consist of a Flexisolator and a Radio.

FlexControl with Two Radios Configuration



FlexControl with One Radio Configuration



Flexisolator

A Flexisolator isolates and protects signals from the FlexControl to the Radio and provides up to 2,000 feet (610 meters) of 24 AWG CAT5 cable communication for the FlexControl to and from the Radio using RS-422 drivers.

The Flexisolator serves three purposes:

1. Equipment protection from electrical surges.
Surge protection prevents unwanted electrical surge currents, for example from lightning, to enter the controller cabinet and destroy electronic circuitry.
2. Protection from electrical shock.
Ground isolation prevents dangerous voltages in a cable from shorting onto the ground or power supply in the cabinet.
3. Length extension.
The power supply voltage on the CAT5 between the FlexControl and the Radio is normally 5 V which allows only limited connection length. To increase the connection length the Flexisolator boosts this voltage to 15 V.

[†]Applicable also to the Access Point Controller Card (APCC)



Functions / Features

Safety Assurance

- Provides surge protection up to 12 A
- Provides electrical isolation up to 2,500 Vrms

Increases connection length between FlexControl and Radio

Power and Activity indicators for both Local (i.e. FlexControl) and Remote (i.e. Radio) connections

Two types of ground terminations

Mounts in traffic cabinet with DIN mount or bracket mount

Flexisolator Front Panel

SPP-0 and SPP-1	RJ45 ports for Radio connections
Remote ↓	Activity LED for SPP ports: off (not receiving data); blinking (receiving data from Radio)
Remote ⏻	Power LED for Radio: on (+ 15 V on); off (no power)
Local ↑	Activity LED for SPP ports: off (not transmitting data); blinking (transmitting data to Radio)
Local ⏻	Power LED for Flexisolator: on (+ 5 V on); off (no power)

Flexisolator Back Panel

	Both Phoenix and screw (# 8) grounding lugs (only connect one).
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Power, Physical, & Environmental

output voltage	15 VDC unregulated 2 W
power consumption	600 mW per Radio
dimensions	4.3" x 3.5" x 1.2" (10.9 cm x 8.8 cm x 3 cm) without mount
weight	7.8 oz (221.5 g) without mount
operating temp	industrial -40°C to 85°C
surge protection	<ul style="list-style-type: none"> • IEC 61000-4-2 (ESD) ±15 kV (air), ±8 kV (contact) • IEC 61000-4-4 (EFT) 40 A (5/50 ns) • IEC 61000-4-5 (Lightning) 12 A (8/20 µs)
electrical isolation	2500 Vrms
connection length extension	up to 2,000 ft (610 m)
mounting	DIN or bracket mount

Available Product

Order Code	Description
FLEX-ISOL-M	FlexIsolator module (2 port): Provides surge protection, electrical isolation, and CAT5 cable length extension (DIN and bracket mounting kit included).

Compliance

safety	2006/95/EC
EMC	<ul style="list-style-type: none"> • FCC: This device complies with Part 15 of the FCC rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation. • 2004/108/EC • IC: This device complies with Industry Canada licence-exempt RSS standard(s). Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device. • IC : Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes : (1) l'appareil ne doit pas produire de brouillage, et (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

Local Distributor