SpiderAlert®

SpiderBus Communication and Control Devices

Local Controller and Repeater for SpiderBus Control and Range Extension

SLC-5 UPS
(SLC-5 & PS-2)

SRP-51 UPS
(SRP-51 & PS-2)

SPT-56
Spike Suppressor and Junction Box

SLC-5
SpiderBus Controller

SRP-51
SpiderBus Repeater

PS-2
SpiderBus Network Power Supply Unit

Applications

- *SpiderBus data collection and control*
- *SpiderBus interface to the PC*
- *SpiderBus length extension and segmentation*
- *Power supply to SpiderBus devices*

Features

SLC-5
- *Commands reception from PC for delivery to the remote units*
- *Alerts and service messages collection from all remote units*
- *Data transfer to the PC through RS-232 serial port*
- *Acknowledgement of received messages and failure warnings*
- *Supervision of data bus and remote units*

SRP-51
- *Enable SpiderBus extension*
- *Electrically isolates FAR and NEAR SpiderBus sections*
- *Includes an output circuit controled by head-end computer*
- *Includes an input circuit for local alarm reporting*
- *Continuous self supervision and power failure indication.*

PS-2
- *High frequency switching regulator 1A/13.8V power supply*
- *Thermal shutdown and automatic current limiting*

SPT-56
- *SpiderBus devices protection against voltage spikes*
- *Six RJ-11 connectors for quick SpiderBus wires attach/detach*

Description

SLC-5 *is a microprocessor- controlled data collection and computer interface unit designed for the SpiderAlert network. It supervises the operation of the entire system.*
SLC-5 *selectable operating modes are single-site direct connection to the computer, multi-site connection via short-range fast modems and multi-site connection via telephone lines modems.*
SRP-51 *is a repeater unit, used for SpiderBus extension. It sends commands received from the* ***SLC-5*** *to the SpiderBus devices and delivers reports collected from all the SpiderBus devices to the* ***SLC-5****.*
The ***SLC-5*** *and* ***SRP-51*** *modules are mounted in plastic box. The* ***SLC-5*** *UPS and* ***SRP-51 UPS*** *include the* ***SLC-5/SRP-51*** *modules with power supply unit* ***PS-2****, mounted in a large metal box, together with a 12V battery.*
SPT-56 *is a 6-port SpiderBus spike suppressor and junction box for bus devices protection and ease of installation.*

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SpiderBus Communication and Control Devices

Specifications

SPIDERBUS

Communication Protocol: *SpiderBus*
Message Format: *40-bit message, including 24-bit ID code*
Operating Voltage Range: *10 -16 VDC*
Cables: *AWG-18 or AWG-22, 4-conductor (minimum), 6- conductor (3 twisted pairs) if using the audio communication option. Category 5 cabling is acceptable. For short distances, flat cable wire AWG-24 may be used*

SLC-5

Communication with Computer*: Serial, RS-232*
Memory Type: *EEPROM*
Memory Capacity: *Up to 255 incoming messages*
Maximum Units located on the SpiderBus: *255*
Current Consumption: *35 mA max (in operation)*
Operating Temperatures Range: *0 °C to 49 °C (32 °F to 120 °F)*
Dimensions:
SLC-5: 165 x 108 x 38 mm (6-1/2 x 4-1/4 x 1-1/2 in.)
SLC-5 UPS: 314 x 264 x 74 mm (12-3/8 x 10-3/8 x 2-15/16 in.)
Weight:
SLC-5: 205 g (7.2 oz.)
SLC-5 UPS: 2880 g (102 oz.)

PS-2

Switching Frequency: *80 - 120 kHz*
Efficiency: *80% (Vin = 19VAC, Iout = 1A)*
Regulated DC Output*: 13.8V/1A (Max. output ripple: 200 mV p-p)*
Overload Protection: *Current limiting and a 1.5 A fuse on PCB*
AC FAIL & BAT FAIL Outputs*: Open collector, 5 mA max.*
BAT TEST Input: *Normally HIGH (12VDC); < 1V for battery test*
Dimensions: *56 x 107 x 65 mm (2-1/4 x 4-3/16 x 2-9/16 in.)*
PCB Size: *76 x 56 mm (3 x 2-1/4 in.)*
Weight : *127g (4.5 oz.)*
Color: *White*

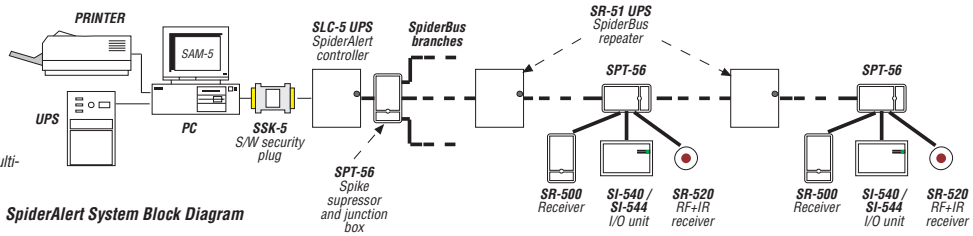
SRP-51

Repeater ID: *8-bit pre-programmed code (2 hexadecimal digits)*
Current Consumption: *7 mA*
Open Collector Output Current: *100 mA maximum*
Output Operating Modes: *Latched on, unlatched or pulsed on by digital commands*
Alarm Input: *Normally Closed. Contacts must open for at least 260 ms to initiate an alarm*
Operating Temperature Range: *-10 °C to 49 °C (14 °F to 120 °F)*
Dimensions:
SRP-50: 110 x 63 x 25 mm (4-5/16 x 2-1/2 x 1 in.)
SRP-50UPS: 314 x 264 x 74 mm (12-3/8 x 10-3/8 x 2-15/16 in.)
Weight:
SRP-50: 190 g (6.7 oz.)
SRP-50 UPS: 2720 g (96 oz.) - excluding the backup battery

SPT-56

Ports: *Two terminal blocks, six RJ-11 jacks*
Spike Suppression Threshold: *39 V ±10%*
Response Time: *10 µs*
Maximum Pulse Transient Energy (10/1000 µSec.): *3.5 Joules*
Operating Temperatures: *-10 °C to 49 °C (14 °F to 120 °F)*
Dimensions (H x W x D): *110 x 63 x 25 mm (4-5/16 x 2-1/2 x 1 in.)*
Weight: *91g (3.2 oz.)*
Color: *White*

Configuration



Note: *For Multi-Site Connection via Short-Range Modems, refer to the multi-site communicator brochure*

SpiderAlert System Block Diagram

ORDERING INFORMATION:

Product Name	Cat. No.	Description
SLC-5	1-7115-0	Single and multi-site communication interface to SpiderBus
SLC-5 UPS	1-7116-0	Same as SLC-5 but in metal box with power supply unit (PS-2)
SRP-51	1-7125-0	SpiderBus repeater with download option
SRP-51 UPS	1-7126-0	Same as SRP-51 but in metal box with power supply unit (PS-2)
PS-2	1-5711-0	Power supply, charger and interface to bus repeater
SPT-56	1-7129-0	SpiderBus 6-port connector with a transorber module for bus protection

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