SCS-105 SDLC SINGLE LINE SERVICE RECEIVER
Installation Guide
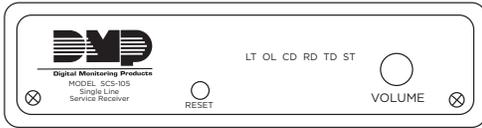

Figure 1: SCS-105 SDLC Single Line Service Receiver

1 INSTALLATION

The best place to install the SCS-105 is near your Remote Link™ or System Link™ computer. This allows you to monitor the communication status LEDs while receiving or sending transmissions, and provides easy access to the line monitor volume control.

If you are using the SCS-105 with DMP Remote Link or System Link software, you must make a few configuration adjustments before you contact any subscriber accounts. See section 3 for more information about configuring.

Note: For additional information, see the Remote Link User's Guide (LT-0565) or System Link User's Guide (LT-0570).

2 CABLE CONNECTIONS

1. Connect the 4-wire phone cable from the appropriate phone jack into the TELCO port on the rear of the SCS-105.

2. Connect the 4-wire data cable to the rear HOST port on the SCS-105 receiver.

3. Connect the 25-pin male connector to the convertor cable using the 25-pin female connector.

4. Connect the 9-pin male connector on the convertor cable to the serial port on the back of the computer. Refer to Figure 2 for cable connectors.
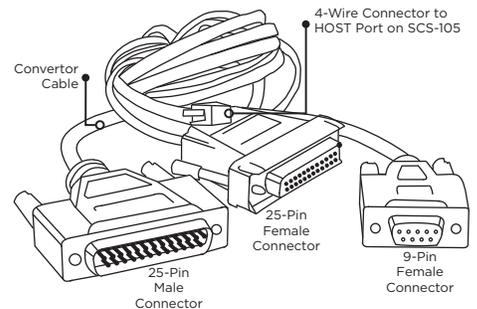
Figure 2: Cable Connectors

Note: If you do not wish for the SCS-105 to pickup incoming calls, call DMP Technical Support

The serial port selected must be free from any other devices such as modems, mouse, or printers. You cannot use COM 1 if you are using COM 3 for another device. Also, you cannot use COM 2 if you are using COM 4 for another device. These COM ports have the same interrupt and cannot be used together.
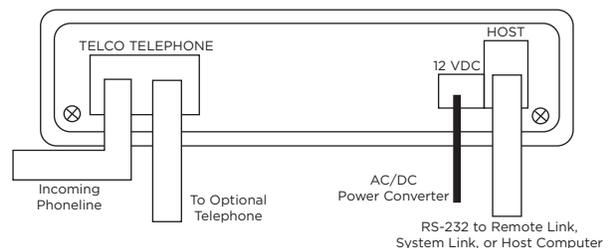

Figure 3: Rear Connections

3 MULTIPLEX MODE

To use the SCS-105 in multiplex mode with multiplex subscriber accounts, you must make some jumper adjustments on the inside of the receiver.

To configure the SCS-105 for multiplex mode:

1. Remove the two front panel screws

2. Slide the circuit board assembly out of the case and place on a non-static surface.

3. Set the jumpers J2 and J5 to MPX.

4. If installing the SCS-105 in a 4-wire multiplex system, set the jumpers J3 and J6 to 4W.

5. Once the jumpers have been set, slide the SCS-105 circuit board assembly into the case and install the two front panel screws.
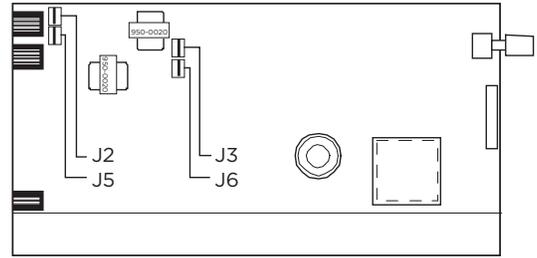
Figure 4: Jumper Locations

Digital dialer mode must be set for 2-wire only: When changing the SCS-105 from multiplex to digital dialer, make sure jumpers J3 and J6 are set to 2W.

During the configuration of the SCS-105, the **ST** (Status) LED flashes at a faster rate to indicate programming of the receiver's **EEPROM** memory. Do not remove the receiver's power supply or reset the receiver during the programming.

4 POWER UP

Once you have configured the SCS-105 and connected the cables, you can apply power.

1. Insert the AC adaptor cord plug into the rear 12 VDC jack.

2. Plug the AC adaptor into a nearby unswitched 120 VAC outlet.

At power up, the SCS-105 conducts an initialization routine for about five seconds, after which the green status LED begins flashing at a rate of once each second. This indicates the receiver is operating normally.

5 INITIALIZATION

During initialization, the SCS-105 tests its outputs, speaker, and internal circuits.

• After initialization, the flashing green LED indicates normal operation.

• If the green LED does not flash, remove all the data cables connected to the SCS-105 except the AC cable and repeat the reset procedure.

• If the SCS-105 still does not function correctly, contact DMP Technical Support.

Status LEDs

The SCS-105 provides six status LEDs that allow you to monitor communication between the receiver and the subscriber's panel.

LED		Description
Display	Definition	
LT	Line Trouble	Indicates improper phone line voltage or faulty connections. If this LED is lit and you are experiencing trouble with a panel connection, check the phone line voltages.
OL	On Line	Indicates the SCS-105 is in an off-hook condition.
CD	Carrier Detect	Indicates the receiver detects the carrier tone from the panel.
RD	Receive Data	Indicates the receiver is receiving data from the panel.
TD	Transmit Data	Indicates the receiver is transmitting data to the panel.
ST	Status	Flashes when the receiver is operating normally. See **Reset Button** on page 3.

ADDITIONAL INFORMATION

Reset Button

During normal operation, the green status (ST) LED flashes about once every second. If the status LED either comes on steady or goes out completely the SCS-105 needs to be reset. Follow the steps below to reset the SCS-105 receiver:

1. Place the head of a small slotted screwdriver against the reset button.
2. Lightly press the reset button and hold for about two seconds before releasing.
3. Wait about five seconds for the SCS-105 initialization routine to end.

Baud Rate Setting

When using the SCS-105 with Remote Link or System Link, the Baud Rate in the software must be set to **9600** baud. You can set the Baud rate in Remote Link and System Link.

1. Select **System > Configure > Remote Link** (or System Link) **> Receiver** tab.
2. In the Baud Rate field, select **9600** from the drop-down menu.

Receiver Key Programming

The SCS-105 comes with a blank default receiver key. This allows you to perform remote operations as the service receiver. Make the default key unique to this SCS-105 to restrict unauthorized remote programming.

Note: For additional information, see the Remote Link User's Guide (LT-0565) or System Link User's Guide (LT-0570).

Answering Machine Bypass Function

If you are contacting a panel that has answering machine bypass capability, the SCS-105 turns on a carrier tone five seconds after it finishes dialing the account phone number. The carrier tone is on for approximately 90 seconds while the subscriber's panel will pick up the phone line and communicate with the Remote Link or System Link computer.

📋 **Note:** This requires SCS-105 firmware version 207 or higher.

Volume Control

You can adjust the volume control to listen to data transmissions between the SCS-105 and DMP panels.

- Set the volume control at about one sixth of a turn clockwise for normal listening levels,
- Turn the volume controler fully counterclockwise to mute the SCS-105.

Adding a Telephone

You can connect a standard telephone to the rear **TELEPHONE** port of the SCS-105 to call and talk to a subscriber at the premises prior to any remote operations.

Digital Dialer Mode

The SCS-105 receiver comes configured for 2-wire digital dialer operation and no hardware adjustments are necessary.

Troubleshooting

Symptom	Cause	Solution
Receiver does not operate when connected to Remote Link™ or System Link™ computer.	COM port conflict on computer	Make sure the other devices are not on the same interrupts or IRQs.
	Baud rate is not properly set	Configure the Baud rate in Remote Link™ or System Link™ to 9600 Baud.
	Bad cable connection	Check connections and the continuity of the conductors.
	Bad data switcher	Bypass the data switch.
	AC adaptor damaged	Always unplug AC adapter from AC outlet before removing the plug from the end of the receiver.
	Incorrect Windows COM driver	Install correct COM driver from your Windows install disk.
Cannot connect with panel.	Jumper settings not correctly set	Open receiver case and check jumper settings.
	Incorrect Account number	Double-check that the account number is correct.
	Panel not programmed properly	In the panel **Remote Options** programming, be sure that the Alarm Receiver or Service Receiver is set to **YES**.
Telephone attached to **TELEPHONE** port does not work.	Receiver is on-line with a panel	Wait until the panel is finished communicating.
	Receiver is unplugged	Be sure that all connections are good. Check the telco line connections and the AC connection.

SCS-105 SDLC SINGLE LINE SERVICE RECEIVER

Specifications

Operating Voltage	12 VDC supplied by AC adaptor
Operating Current	200 mA maximum
RS-232 Output	9600 Baud
Case Construction	Extruded aluminum with plastic ends
Dimensions	10.4" L x 5.5" W x 1.6" H
Weight	2 lbs.

Accessories

Remote Link™	Panel Programming Software
System Link™	End-User Panel Management Software
Command Center	Visual Command and Control Software
Alarm Monitoring	Alarm Monitoring Software
395	SCS-105 Data Cable

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