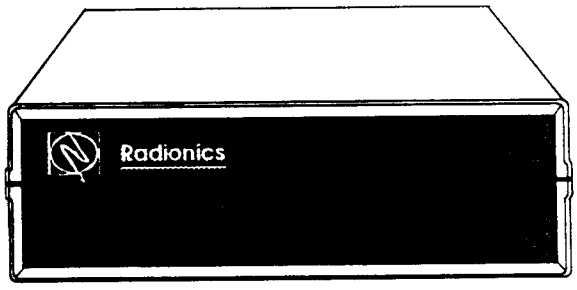
R A D I O N I C S

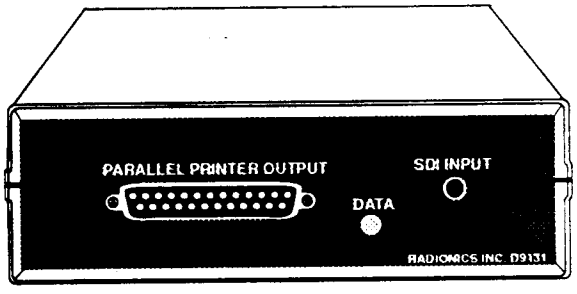
D9131 Parallel Printer Interface Operation and Installation

Features

- Uses a standard parallel printer
- On-premises recording of D7112 and D9112 system events
- Simple 4-wire installation
- Installation up to 1000 ft. from the Control/ Communicator Panel
- Complete event information including Date, Time, Event, Account Number, Area Number, User ID, Point Number and Point Text
- Three supervised D9131 and printers supported by one D9112. One supervised D9131 and printer supported by the D7112.
- Programmable "Scope" for the D9112 system allows the printer to print a specific area's information, an account's information or panel wide information
- You can program the D9112 panel to report the following selected events:
  - Point Events
  - Open and Close Events
  - Non-Alarm Events



Front View of D9131



Rear View of D9131

Description

The Radionics D9131 Parallel Printer Interface is an accessory for the Radionics D7112 and D9112 Control/Communicator Panels. The D9131 connects to a standard parallel printer via a standard parallel printer cable. A 4-wire connection, of up to 1000 ft., connects the remotely located D9131 Printer Interface to the panel. The D9131 prints a one line message for each selected event that occurs. One D9112 supervises three printers. Each printer requires a separate D9131 Printer Interface Module. A D7112 supervises one printer with a D9131.

On-premises recording of selected events allows you to review events on an as-needed basis. This capability reduces the number of telephone calls to the receiver from both the user and the technician, as well as reducing the number of reports from the panel to the receiver.

Installation

Wiring the D9131 to the Control/Communicator

You can place the D9131 up to 1000 ft. from the panel.

D9131	D7112	D9112
SDI PWR	27	32
SDI COM	28	29
SDI-A	26	31
SDI-B	25	30

Connecting the D9131 to the Printer

Use a standard parallel printer cable. One end should be a Centronics connector, and the other a DB25 male connector. The parallel printer connector on the D9131 is a DB25 female connector.

Switch Settings

Switches 1 and 2 in each D9131 determine its address. Switch 4 determines whether or not a form feed is provided and a page header is printed. Switches 3, 5, and 6 are not used.

After changing switch settings the D9131 must be powered off then back on, otherwise the change in switch settings has no effect.

Printer Address

The address of each D9131 must match the corresponding address programmed in the control/communicator. See figure 1 for switch settings for printers 17, 18, and 19. The D7112 uses address 17. The D9112 can use addresses 17, 18, and 19.

The first two switches determine the printer address.

Printer 17	Printer 18	Printer 19
1 and 2 ON	1 OFF, 2 ON	1 ON, 2 OFF

Figure 1: D9131 Address Switch Settings

Header and Form Feed

Switch 4 determines if a header and form feed are provided. Put switch 4 in the ON position to print the header and provide a form feed.

Turn off the header and form feed feature if you are using a print spooling device to have multiple D9131 interfaces connected to a single printer.

Operation

Using the D9131 with the D7112

The D7112 supervises one D9131. See the *Supervision* section of this manual for D9131 supervision features.

To program the D7112 for printer operation, see the *Miscellaneous* section of *Panel Wide Parameters* in the *D7112 Control/Communicator Program Entry Guide*. Program *Printer* as **Yes**.

Use the switch settings for printer 17. See Figure 1.

The panel sends all events to the printer.

Using the D9131 with the D9112

For proper operation with the D9112, you must use a D9131 with software version 2.0 or higher.

The D9112 can supervise up to three D9131s. Supervision is a programmable option in the D9112. Supervision is programmed separately for each printer. See the *Supervision* section of this manual for D9131 supervision features.

To program the D9112 for printer operation, see the *Printer* section of *Panel Wide Parameters* in the *D9112 Control/Communicator Program Entry Guide*.

Use the switch settings for printer 17, 18, and/or 19. See Figure 1.

Setting unique addresses in each D9131 allows the D9112 to print selected information at each printer. When an event occurs in the D9112, the panel checks the programming for each printer interface to determine where it should print the event. See the *Panel Wide Parameters* section in the *D9112 Program Entry Guide* for details.

Supervision

The panel sends an SDI failure report to the receiver if it fails to communicate with the printer interface, and SERVC PRINTER displays at the command center. The report to the receiver includes the address of the troubled D9131 so you know which printer needs service.

Supervision includes proper operation of the SDI bus, proper connection of the printer cable between the printer and the D9131, printer paper supply, printer selected (on-line), and printer power.

LED Operation

A green LED on the back of the D9131 flashes when it is communicating with the panel. If this LED fails to flash check connections to the panel and verify programming.

Printer Reports

The D9131 uses an 80 character format that provides complete event information. See the *Local Security Printer Interface User's Guide* (71-06005-000) for a complete description of printer reports.

Specifications

Operating Voltage
7.3 VDC to 13.9 VDC

Current Draw
Idle: 21 mA Transmitting: 23 mA

Operating Temperature
0°C to 50°C (32°F to 125°F)

Wire Distance
Maximum of 1000 ft. using 22AWG solid copper wire

Parallel Data Output
Data is sent to the D9131 at a rate of 9600 baud on the SDI Bus. The actual print time depends on the printer used.

LED Indicators
The Green LED on the back of the D9131 indicates the D9131 is being addressed by the control/communicator and the D9131 has successfully decoded the address.

FCC Notice

Part 15

This equipment generates, uses, and can radiate radio frequency energy. If it is not installed and used in accordance with the manufacturer's instructions, it may cause interference to radio and television reception. It has been tested and found to comply with the specifications in Part 15 of FCC rules for Class B Computing Devices.

If this equipment causes interference to radio or television reception - which can be determined by turning the equipment on and off - the installer is encouraged to correct the interference by one or more of the following measures: 1) Reorient the antenna of the radio/television. 2) Connect the AC transformer to a different outlet so the control panel and radio/television are on different branch circuits. 3) Relocate the control panel with respect to the radio/television.

If necessary, the installer should consult an experienced radio/television technician for additional suggestions, or send for the "Interference Handbook" prepared by the Federal Communications Commission. This booklet is available from the U.S. Government Printing Office, Washington D.C. 20402, stock number 004-000-00450-7.

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