Simplex

*UL/ULC Listed**

Fire Alarm System Accessories

Model 4190-9027, 24-Pin Dot Matrix Fire Alarm System Remote Printer

Features

High resolution, 24-pin, dot matrix bi-directional printer for use with Simplex model:

- 4190 TrueSite Workstation (TSW)
- 4190 PC Annunciator
- Fire Alarm Control Panels: 4100ES, 4010ES, 4007ES
- Other legacy Simplex fire alarm control units with serial printer support. Contact your local Simplex product representative for compatibility.

Provides hard copy records of:

- System events with alarm conditions automatically printed **bold**
- Alarm Historical Log
- Trouble Historical Log
- TrueAlarm® Status Report
- TrueAlarm® Service Report
- TrueAlert Device Report
- TrueNAC Status Report
- TrueAlarm® CO Report
- Install Mode List Report
- Alarm Verification Tally Report
- TrueAlertES Self-Test Report
- TrueAlertES SpeakerTap Report
- Advanced Earth Fault Diagnostic Report

Note: The list above is product-dependent. Refer to the specific product documentation to verify which reports are supported.

Serial RS-232, USB, or parallel communications interface

RS-232 communications and AC input are transient protected

Description

Model 4190-9027 is a high resolution 24-pin printer for use with Simplex fire alarm control units and related systems. It is listed for supplemental fire protective signaling system operation under UL Standard 864.

Transient suppression is included for both RS-232 communications and 120 VAC power. Testing is performed to ensure proper operation with compatible UL listed fire alarm control equipment.

Typical printer operations include: recording of fire alarm system activity for fire response documentation, documenting non-fire alarm activity such as security monitoring of door openings and WALKTEST system test results, and documenting other related activity (such as AC power failure and restoration) as directed by the connected unit. Additionally, diagnostic information may be printed such as TrueAlarm analog sensor status and service reports for analysis of smoke detection sensitivity (refer to Sample Event Printouts).

Refer to Installation Instructions 579-1310 for additional information.

Specifications

Figure 1: 4190-9027 Fire Alarm System Printer



Table 1: Specifications

Specification		Details
Input voltage		100 VAC to 240 VAC, 50 Hz to 60 Hz
Idle power		8 W
Print current		2 A typical
Max print current		3.1 A
Print speed	Ultra high speed	550 cps @ 10 cpi
	High speed	487 cps @ 10 cpi 584 cps @ 12 cpi
	Draft	366 cps @ 10 cpi 439 cps @ 12 cpi 549 cps @ 15 cpi
	Letter	121 cps @ 10 cpi 145 cps @ 12 cpi
Column width		80 columns @ 10 cpi
Buffer size		128 kB
Paper specifications	Cut sheet	3 9/10 in. to 10 1/10 in. (100 mm to 257 mm)
	Copies	Original and up to 5 copies (carbonless only)
Dimensions		6 9/10 in. H x 17 1/5 in. W x 12 3/5 in. D (176.5 mm x 437 mm x 320 mm)
Weight		15.9 lbs (7.2 kg)
Operating temperature		41ºF to 95ºF (5ºC to 35ºC)
Humidity		10 % to 80 % RH (non-condensing)
Replacement ribbon		Epson S015337
RS232 Device Type Designation		PRT8OS. Supervised. PRT8OU. Unsupervised.

Please note that the printer specifications supplied under this model number may vary slightly due to product availability.

* Additional listings may be applicable; contact your local Simplex product supplier for the latest status. Listings and approvals under Simplex Time Recorder Co.

Sample Event Printouts

Figure 2: Sample event printout

```
Alarm Condition:
         12:42:44 pm  WED 27 JAN 10 CAFETERIA STORAGE ROOM
                      FIRE MONITOR ZONE                        ALARM
Supervisory Service:
         12:43:08 pm  WED 27 JAN 10 OFFICE AREA BUILDING 23
                      SPRINKLER MONITOR                        ABNORMAL
Trouble Condition:
         12:43:41 pm   NURSES STATION EXAMINING ROOM
                      FIRE MONITOR ZONE                        DISABLE TROUBLE
```

Sample TrueAlarm Status & Service Reports

Figure 3: TrueAlarm status report

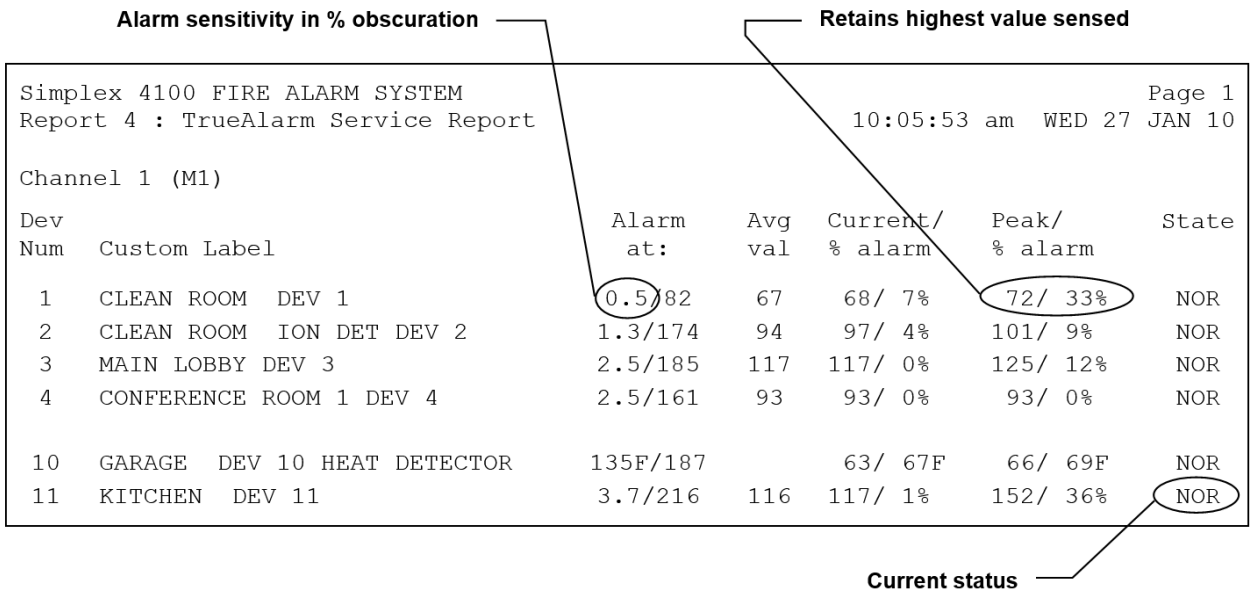
```
Simplex 4100 FIRE ALARM SYSTEM                                          Page 1
Report 3 : TrueAlarm Status Report                  9:25:22 am  WED 27 JAN 10

Channel 1 (M1)

Zone                                              Sensi-                  Almost
Name    Custom Label                              tivity    Device Status  Dirty
M1-1    ANALOG PHOTO - CLEAN ROOM                  0.5        NORMAL
M1-2    ANALOG ION - CLEAN ROOM                    1.3        NORMAL
M1-3    ANALOG PHOTO - MAIN LOBBY                  2.5        NORMAL       *YES*
M1-4    ANALOG PHOTO - CONFERENCE ROOM 1           2.5        NORMAL

M1-10   HEAT DETECTOR - GARAGE                    135F        NORMAL
M1-11   ANALOG PHOTO - KITCHEN                     3.7        NORMAL       *YES*
```

Figure 4: TrueAlert service report



Sample TrueAlert ES Appliance Self-Test Last Test Results Report

Service Port Page 1
REPORT 10 TrueAlertES Self-Test Report 12:34:56pm WED 03-DEC-14

Point ID	Custom Label	Date	Visual	Audible
T1-1-1	VO FIRST FLOOR (up to 40 characters)	03-DEC-14	NO OUT	N/A
T1-2-5	AV FIRST FLOOR EAST WING	03-DEC-14	NO OUT	NORMAL
T7-3-55	AO SECOND FLOOR EAST WING	03-DEC-14	N/A	NO OUT
T8-2-45	AV SECOND FLOOR ROOM 29	03-DEC-14	NOT TST	N/A
T8-2-60	AV SECOND FLOOR ROOM 22	03-DEC-14	NORMAL	NORMAL
T1-2-4	AO FIRST FLOOR ROOM 17	03-DEC-14	N/A	UNSUPP

TRUEALERT_ES SELF-TEST REPORT COMPLETED
Press RETURN for next Screen OR CTRL-X to abort

Results Description

The following is a brief description of each of the types of results in the report:

- **NORMAL** = Works correctly
- **NO OUT** = No Output, no light or sound was detected
- **NOT TST** = No result. Either the appliance did not return a result before the test ended or the test was conducted as silent (strobes only) and audible appliance was not activated
- **N/A** = Not applicable (no strobe, on audible only, etc.)
- **UNSUPP** = Appliance not compatible with Self-Test (TrueAlert addressable appliance not TrueAlert ES addressable appliance)

Note: Additional TrueAlert ES Self-Test information is detailed in ES Operating Instructions 579-197 shipped with the unit.

Sample TrueAlert ES Appliance Self-Test Results Report

Service Port Page 1
REPORT 10 TrueAlertES Self-Test Report 12:34:56pm WED 03-DEC-14

Point ID	Custom Label	Date	Visual	Audible
T1-1-1	VO FIRST FLOOR	03-DEC-14	NO OUT	N/A
T1-2-5	AV FIRST FLOOR EAST WING	03-DEC-14	NO OUT	NORMAL
T1-2-6	AV FIRST FLOOR NORTH ENTRANCE	30-OCT-14	NO OUT	NORMAL
T7-3-55	AO SECOND FLOOR EAST WING	03-DEC-14	N/A	NO OUT
T8-2-45	AV SECOND FLOOR ROOM 29	03-DEC-14	NOT TST	N/A
T1-1-11	AV FIRST FLOOR SOUTH ENTRANCE	30-OCT-14	NORMAL	NORMAL
T8-2-60	AV SECOND FLOOR ROOM 22	03-DEC-14	NORMAL	NORMAL
T1-2-4	AO FIRST FLOOR ROOM 17	03-DEC-14	N/A	UNSUPP
T1-2-7	AO FIRST FLOOR ROOM 12	30-OCT-14	N/A	UNSUPP
T8-3-43	AV SECOND FLOOR ROOM 25	30-OCT-14	UNSUPP	UNSUPP

TRUEALERT_ES SELF-TEST REPORT COMPLETED
Press RETURN for next Screen OR CTRL-X to abort

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