

## 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 – 240 VAC, 50 - 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 in to 10.1 in (100 mm - 257 mm)
	Copies	Original and up to 5 copies, carbonless only
Dimensions		6.9 in H x 17.2 in W x 12.6 in D (176.5 mm x 437 mm x 320 mm)
Weight		15.9 lbs (7.2 kg)
Operating temperature		41° F – 95° F (5° C – 35° C)
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.*

**Sample Event Printouts**

```

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**

```

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

Channel 1 (M1)

Zone Name      Custom Label      Sensi-      Device Status      Almost
tivity                                     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*
    
```

**Alarm sensitivity in % obscuration**

**Retains highest value sensed**

```

Simplex 4100 FIRE ALARM SYSTEM                                     Page 1
Report 4 : TrueAlarm Service Report                                10:05:53 am WED 27 JAN 10

Channel 1 (M1)

Dev Num  Custom Label      Alarm at:      Avg val      Current/      Peak/      State
% alarm      % alarm
  1  CLEAN ROOM DEV 1      0.5/82        67           68/ 7%       72/ 33%     NOR
  2  CLEAN ROOM ION DET DEV 2 1.3/174       94           97/ 4%       101/ 9%     NOR
  3  MAIN LOBBY DEV 3      2.5/185      117          117/ 0%      125/ 12%    NOR
  4  CONFERENCE ROOM 1 DEV 4 2.5/161       93           93/ 0%       93/ 0%      NOR

 10  GARAGE DEV 10 HEAT DETECTOR 135F/187      63/ 67F     66/ 69F     NOR
 11  KITCHEN DEV 11        3.7/216     116          117/ 1%     152/ 36%    NOR
    
```

**Current status**

**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 (strokes 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					

