S Simplex

UL, ULC, CSFM Listed;
FM Approved*

Model 4190-9013, 24-Pin Dot Matrix
Fire Alarm System Remote Printer

Features

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

- 4100ES, 4100U, 4100, 4010ES and 4010 Series Fire Alarm Control Panels
- 4190 Series Network Annunciator Products
- Other new and legacy Simplex fire alarm control panels 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**
- TrueAlarm® analog sensor information
- WALKTEST™ system testing
- History files

Serial RS-232, USB, or parallel communications interface

RS-232 communications and AC input are transient protected

UL listed to Standard 864

Description

Model 4190-9013 is a high resolution 24-pin printer for use with Simplex fire alarm control panels 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 would 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 panel. Additionally, diagnostic information may be printed such as TrueAlarm analog sensor status and service reports for analysis of smoke detection sensitivity (refer to sample printouts on page 2).

Refer to Installation Instructions 579-233 for additional information.

4190-9013 Fire Alarm System Printer

Specifications

Voltage		120 VAC, 60 Hz
Idle Current		130 mA @ 120 VAC
Print Current @ 120 VAC		1.1 A typical, 2.6 A maximum, depending on character type
Print Power @ 120 VAC		Approximately 42 W per ISO/IEC 10561 letter pattern
Print Speed (characters per second, cps)	High Speed Draft Mode	440 cps @ 10 cpi
	Draft Mode	330 cps @ 10 cpi
	Letter Quality	110 cps @ 10 cpi
Column Width		80 Columns @ 10 cpi
Buffer Size		128 kB
Paper Specifications	Fan Fold	4" to 10" wide (101 to 254 mm)
	Cut Sheet	5-13/16" to 10-1/8" wide (148 to 257 mm)
	Copies	Original and up to 4 copies, carbon-less only
Dimensions		16-5/16" W x 13-13/16" D x 6-5/8" H (414 mm x 350 mm x 168 mm)
Weight		15.9 lbs (7.2 kg)
Operating Temperature		32° to 120° F (0° to 49° C)
Humidity		10 to 85% RH, non-condensing
Replacement Ribbon		Order as vended item in Job Design, Bushnell Ribbon 837-0100
System Designation		PRT80S, Supervised PRT80U, Unsupervised

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

Sample Event Printouts

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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
```
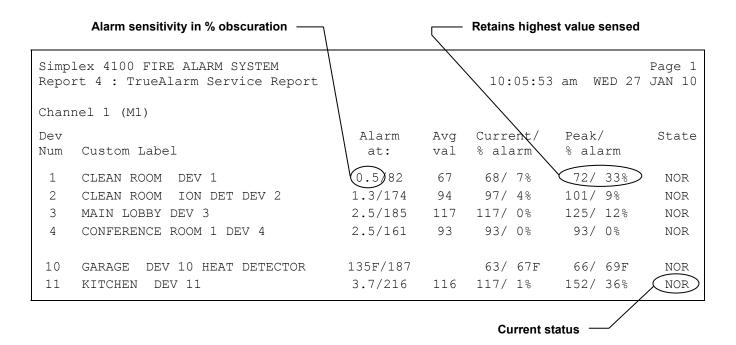
Sample TrueAlarm Status & Service Reports

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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*
```

Alarm sensitivity in % obscuration ⎯⎯   ⎯⎯ **Retains highest value sensed**

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

Channel 1 (M1)

Dev                       Alarm    Avg   Current/   Peak/         State
Num    Custom Label        at:     val   % 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 ⎯⎯