



# Viewing Sensors

This chapter includes the following sections:

- [Viewing Chassis Sensors, on page 1](#)
- [Viewing Server Sensors, on page 7](#)

## Viewing Chassis Sensors

## Viewing Power Supply Sensors

### SUMMARY STEPS

1. Server# **scope sensor**
2. Server /sensor # **show psu**
3. Server /sensor # **show psu-redundancy**

### DETAILED STEPS

	Command or Action	Purpose
<b>Step 1</b>	Server# <b>scope sensor</b>	Enters sensor command mode.
<b>Step 2</b>	Server /sensor # <b>show psu</b>	Displays power supply sensor statistics for the server.
<b>Step 3</b>	Server /sensor # <b>show psu-redundancy</b>	Displays power supply redundancy sensor status for the server.

### Example

This example displays power supply sensor statistics:

```
Server# scope sensor
Server /sensor # show psu
Name          Sensor Status Reading Units Min. Warning Max. Warning Min. Failure Max.
Failure
-----
-----
```

```

SU1_PIN          Normal      102      Watts    N/A      882      N/A
 1098
PSU2_PIN         Normal      96       Watts    N/A      882      N/A
 1098
PSU3_PIN         Normal     102      Watts    N/A      882      N/A
 1098
PSU4_PIN         Normal      96       Watts    N/A      882      N/A
 1098
PSU1_POUT        Normal      78       Watts    N/A      798      N/A
 996
PSU2_POUT        Normal      78       Watts    N/A      798      N/A
 996
PSU3_POUT        Normal      84       Watts    N/A      798      N/A
 996
PSU4_POUT        Normal      84       Watts    N/A      798      N/A
 996
POWER_USAGE      Normal     406      Watts    N/A      N/A      N/A
 2674
PSU1_DC_OK       Normal      good
PSU2_DC_OK       Normal      good
PSU3_DC_OK       Normal      good
PSU4_DC_OK       Normal      good
PSU1_AC_OK       Normal      good
PSU2_AC_OK       Normal      good
PSU3_AC_OK       Normal      good
PSU4_AC_OK       Normal      good
PSU1_STATUS      Normal      present
PSU2_STATUS      Normal      present
PSU3_STATUS      Normal      present
PSU4_STATUS      Normal      present

```

```

Server /sensor # show psu-redundancy
Name           Reading      Sensor Status
-----
PS_RDNDNT_MODE full         Normal

```

```
Server /sensor #
```

## Viewing Fan Sensors

### SUMMARY STEPS

1. Server# **scope sensor**
2. Server /sensor # **show fan [detail]**

## DETAILED STEPS

	Command or Action	Purpose
<b>Step 1</b>	Server# <b>scope sensor</b>	Enters sensor command mode.
<b>Step 2</b>	Server /sensor # <b>show fan [detail]</b>	Displays fan sensor statistics for the server.

**Example**

This example displays fan sensor statistics:

```

Server# scope sensor
Server /sensor # show fan
Name           Sensor Status  Reading  Units  Min. Warning  Max. Warning  Min. Failure
Max. Failure
-----
-----
PSU1_FAN_SPEED Normal         5160    RPM    1118          N/A           946
N/A
PSU2_FAN_SPEED Normal         6106    RPM    1118          N/A           946
N/A
PSU3_FAN_SPEED Normal         5762    RPM    1118          N/A           946
N/A
PSU4_FAN_SPEED Normal         4988    RPM    1118          N/A           946
N/A
FAN1_SPEED     Normal         6600    RPM    2040          N/A           1800
N/A
FAN2_SPEED     Normal         6660    RPM    2040          N/A           1800
N/A
FAN3_SPEED     Normal         6600    RPM    2040          N/A           1800
N/A
FAN4_SPEED     Normal         6660    RPM    2040          N/A           1800
N/A
FAN5_SPEED     Normal         6660    RPM    2040          N/A           1800
N/A
FAN6_SPEED     Normal         6660    RPM    2040          N/A           1800
N/A
FAN7_SPEED     Normal         6660    RPM    2040          N/A           1800
N/A
FAN8_SPEED     Normal         6660    RPM    2040          N/A           1800
N/A
Server /sensor #

```

## Viewing Current Sensors

## SUMMARY STEPS

1. Server# **scope sensor**
2. Server /sensor # **show current**

## DETAILED STEPS

	Command or Action	Purpose
<b>Step 1</b>	Server# <b>scope sensor</b>	Enters sensor command mode.

	Command or Action	Purpose
<b>Step 2</b>	Server /sensor # <b>show current</b>	Displays current sensor statistics.

### Example

This example displays current sensor statistics:

```
Server# scope sensor
Server /sensor # show current
Name          Sensor Status Reading   Units   Min. Warning Max. Warning Min. Failure Max.
Failure
-----
PSU1_IOUT     Normal          6.00    AMP     N/A       78.00    N/A
87.00
PSU2_IOUT     Normal          6.00    AMP     N/A       78.00    N/A
87.00
PSU3_IOUT     Normal          7.00    AMP     N/A       78.00    N/A
87.00
PSU4_IOUT     Normal          7.00    AMP     N/A       78.00    N/A
87.00

Server /sensor #
```

## Viewing Voltage Sensors

### SUMMARY STEPS

1. Server# **scope sensor**
2. Server /sensor # **show voltage**

### DETAILED STEPS

	Command or Action	Purpose
<b>Step 1</b>	Server# <b>scope sensor</b>	Enters sensor command mode.
<b>Step 2</b>	Server /sensor # <b>show voltage</b>	Displays voltage sensor statistics.

### Example

This example displays voltage sensor statistics:

```
Server# scope sensor
Server /sensor # show voltage
Name          Sensor Status Reading   Units   Min. Warning Max. Warning Min. Failure
Max. Failure
-----
SIOC_P1V0     Normal          1.000    V       N/A       N/A       0.944
1.064
SIOC_P1V2     Normal          1.208    V       N/A       N/A       1.128
1.272
```

SIOC_P1V5 1.590	Normal	1.500	V	N/A	N/A	1.410
SIOC_P2V5 2.646	Normal	2.478	V	N/A	N/A	2.338
SIOC_P3V3 3.500	Normal	3.320	V	N/A	N/A	3.100
SIOC_P12V_STBY 12.720	Normal	12.060	V	N/A	N/A	11.280
SIOC_P3V3_STBY 3.460	Normal	3.360	V	N/A	N/A	3.140
PSU1_VIN 264.000	Normal	228.000	V	N/A	N/A	N/A
PSU2_VIN 264.000	Normal	228.000	V	N/A	N/A	N/A
PSU3_VIN 264.000	Normal	228.000	V	N/A	N/A	N/A
PSU4_VIN 264.000	Normal	228.000	V	N/A	N/A	N/A
P5V_1 5.640	Normal	5.010	V	N/A	N/A	4.500
P5V_2 5.640	Normal	5.010	V	N/A	N/A	4.500
P5V_3 5.640	Normal	5.010	V	N/A	N/A	4.500
P5V_4 5.640	Normal	5.010	V	N/A	N/A	4.500
P0V9_EXP1_VCORE 0.976	Normal	0.872	V	N/A	N/A	0.836
P0V9_EXP2_VCORE 0.976	Normal	0.872	V	N/A	N/A	0.836
P0V9_EXP1_AV 0.976	Normal	0.888	V	N/A	N/A	0.836
P0V9_EXP2_AV 0.976	Normal	0.904	V	N/A	N/A	0.836
PSU1_VOUT 12.600	Normal	12.000	V	N/A	N/A	N/A
PSU2_VOUT 12.600	Normal	12.000	V	N/A	N/A	N/A
PSU3_VOUT 12.600	Normal	12.000	V	N/A	N/A	N/A
PSU4_VOUT	Normal	12.000	V	N/A	N/A	N/A

Server /sensor #

## Viewing Temperature Sensors

### SUMMARY STEPS

1. Server# **scope sensor**
2. Server /sensor # **show temperature**

### DETAILED STEPS

	Command or Action	Purpose
<b>Step 1</b>	Server# <b>scope sensor</b>	Enters sensor command mode.
<b>Step 2</b>	Server /sensor # <b>show temperature</b>	Displays temperature sensor statistics.

**Example**

This example displays temperature sensor statistics:

```

Server# scope sensor
Server /sensor # show temperature
Name           Sensor Status  Reading Units   Min. Warning Max. Warning Min. Failure
Max. Failure
-----
-----
SIOC1_BACK_TEMP Normal        37.0    C      N/A      70.0      N/A
 80.0
SIOC1_FRONT_TEMP Normal        42.0    C      N/A      70.0      N/A
 80.0
SIOC1_MID_TEMP Normal        41.0    C      N/A      70.0      N/A
 80.0
SIOC1_VIC_TEMP Normal        44.0    C      N/A      70.0      N/A
 80.0
SIOC2_VIC_TEMP Normal        44.0    C      N/A      70.0      N/A
 80.0
MOBO_R_BOT_TEMP Normal        30.0    C      N/A      70.0      N/A
 80.0
MOBO_L_BOT_TEMP Normal        31.0    C      N/A      70.0      N/A
 80.0
MOBO_R_MID_TEMP Normal        25.0    C      N/A      50.0      N/A
 55.0
MOBO_R_IN_TEMP Normal        24.0    C      N/A      50.0      N/A
 55.0
MOBO_L_IN_TEMP Normal        26.0    C      N/A      50.0      N/A
 55.0
MOBO_L_MID_TEMP Normal        26.0    C      N/A      50.0      N/A
 55.0
MOBO_R_OUT_TEMP Normal        29.0    C      N/A      47.0      N/A
 52.0
MOBO_L_OUT_TEMP Normal        29.0    C      N/A      46.0      N/A
 51.0
PSU1_TEMP Normal        24.0    C      N/A      55.0      N/A
 60.0
PSU2_TEMP Normal        27.0    C      N/A      55.0      N/A
 60.0
PSU3_TEMP Normal        27.0    C      N/A      55.0      N/A
 60.0
PSU4_TEMP Normal        25.0    C      N/A      55.0      N/A
 60.0
SIOC1_CMC_TEMP Normal        51.0    C      N/A      75.0      N/A
 85.0
MOBO_R_EXP_TEMP Normal        37.0    C      N/A      80.0      N/A
 90.0
MOBO_L_EXP_TEMP Normal        40.0    C      N/A      80.0      N/A
 90.0
SIOC2_BACK_TEMP Normal        36.0    C      N/A      70.0      N/A
 80.0
SIOC2_FRONT_TEMP Normal        36.0    C      N/A      70.0      N/A
 80.0
SIOC2_MID_TEMP Normal        36.0    C      N/A      70.0      N/A
 80.0
SIOC2_CMC_TEMP Normal        36.0    C      N/A      75.0      N/A
 85.0
Server /sensor #

```

## Viewing LED Sensor

### SUMMARY STEPS

1. Server# **scope sensor**
2. Server /sensor # **show led**

### DETAILED STEPS

	Command or Action	Purpose
<b>Step 1</b>	Server# <b>scope sensor</b>	Enters sensor command mode.
<b>Step 2</b>	Server /sensor # <b>show led</b>	Displays LED sensor statistics.

### Example

This example displays LED sensor statistics:

```
Server# scope sensor
Server /sensor # show led
LED Name          LED State  LED Color
-----
LED_FAN12_FAULT   OFF        AMBER
LED_FAN34_FAULT   OFF        AMBER
LED_FAN56_FAULT   OFF        AMBER
LED_FAN78_FAULT   OFF        AMBER
CHS_FP_LED_ID     OFF        BLUE
LED_HLTH_STATUS   ON         GREEN
LED_PSU_STATUS    ON         GREEN
LED_TEMP_STATUS   ON         GREEN
LED_FAN_STATUS    ON         GREEN
SERVER1_FP_ID_LED OFF        BLUE
SERVER2_FP_ID_LED OFF        BLUE
OVERALL_DIMM_STATUS ON         GREEN
Server /sensor #
```

## Viewing Server Sensors

### Viewing Storage Sensors

#### SUMMARY STEPS

1. Server # **scope server {1 | 2}**
2. Server /server # **scope sensor**
3. Server /server /sensor #**show hdd**

## DETAILED STEPS

	Command or Action	Purpose
<b>Step 1</b>	Server # <b>scope server</b> {1   2}	Enters server command mode of server 1 or 2.
<b>Step 2</b>	Server /server # <b>scope sensor</b>	Enters sensor command.
<b>Step 3</b>	Server /server /sensor # <b>show hdd</b>	Displays the storage sensors for the server.

**Example**

This example displays the storage sensors for the server:

```
Server# scope server 1
Server /server #scope sensor
Server /server /sensor #show hdd
Name                               Status
-----
SSD1_PRS                            inserted
SSD2_PRS                            inserted

Server server /sensor #
```

## Viewing Current Sensors

## SUMMARY STEPS

1. Server # **scope server** {1 | 2}
2. Server /server # **scope sensor**
3. Server /server /sensor #**show current**

## DETAILED STEPS

	Command or Action	Purpose
<b>Step 1</b>	Server # <b>scope server</b> {1   2}	Enters server command mode of server 1 or 2.
<b>Step 2</b>	Server /server # <b>scope sensor</b>	Enters sensor command.
<b>Step 3</b>	Server /server /sensor # <b>show current</b>	Displays the current sensors for the server.

**Example**

This example displays the current sensors for the server:

```
Server# scope server 1
Server /server #scope sensor
Server /server /sensor #show current
Name           Sensor Status  Reading  Units  Min. Warning Max. Warning Min. Failure Max.
Failure
-----
```



```
P12V_CUR_SENS Normal 5.84 AMP N/A N/A N/A
56.90
Server server /sensor #
```

## Viewing LED Sensors

### SUMMARY STEPS

1. Server # **scope server {1 | 2}**
2. Server /server # **scope sensor**
3. Server /server /sensor #**show led**

### DETAILED STEPS

	Command or Action	Purpose
<b>Step 1</b>	Server # <b>scope server {1   2}</b>	Enters server command mode of server 1 or 2.
<b>Step 2</b>	Server /server # <b>scope sensor</b>	Enters sensor command.
<b>Step 3</b>	Server /server /sensor # <b>show led</b>	Displays the LED sensors for the server.

### Example

This example displays the LED sensors for the server:

```
Server# scope server 1
Server /server #scope sensor
Server /server /sensor #show led
LED Name                LED State LED Color
-----
FP_ID_LED                FAST BLINK BLUE
P1_DIMM_A1_LED           OFF       AMBER
P1_DIMM_A2_LED           OFF       AMBER
P1_DIMM_B1_LED           OFF       AMBER
P1_DIMM_B2_LED           OFF       AMBER
P1_DIMM_C1_LED           OFF       AMBER
P1_DIMM_C2_LED           OFF       AMBER
P1_DIMM_D1_LED           OFF       AMBER
P1_DIMM_D2_LED           OFF       AMBER
P2_DIMM_E1_LED           OFF       AMBER
P2_DIMM_E2_LED           OFF       AMBER
P2_DIMM_F1_LED           OFF       AMBER
P2_DIMM_F2_LED           OFF       AMBER
P2_DIMM_G1_LED           OFF       AMBER
P2_DIMM_G2_LED           OFF       AMBER
P2_DIMM_H1_LED           OFF       AMBER
P2_DIMM_H2_LED           OFF       AMBER
LED_HLTH_STATUS          ON        GREEN
LED_TEMP_STATUS          ON        GREEN
OVERALL_DIMM_STATUS      ON        GREEN

Server server /sensor #
```

# Viewing Temperature Sensors

## SUMMARY STEPS

1. Server # **scope server {1 | 2}**
2. Server /server # **scope sensor**
3. Server /server /sensor #**show temperature**

## DETAILED STEPS

	Command or Action	Purpose
<b>Step 1</b>	Server # <b>scope server {1   2}</b>	Enters server command mode of server 1 or 2.
<b>Step 2</b>	Server /server # <b>scope sensor</b>	Enters sensor command.
<b>Step 3</b>	Server /server /sensor # <b>show temperature</b>	Displays the temperature sensors for the server.

### Example

This example displays the temperature sensors for the server:

```

Server# scope server 1
Server /server #scope sensor
Server /server /sensor #show temperature
Name           Sensor Status  Reading  Units   Min. Warning Max. Warning Min. Failure
Max. Failure
-----
TEMP_SENS_FRONT  Normal      24.0    C       N/A     60.0     N/A
  70.0
TEMP_SENS_REAR   Normal      25.0    C       N/A     80.0     N/A
  85.0
P1_TEMP_SENS     Normal      21.0    C       N/A     74.0     N/A
  79.0
P2_TEMP_SENS     Normal      23.5    C       N/A     74.0     N/A
  79.0
DDR3_P1_A1_TEMP  Normal      23.0    C       N/A     65.0     N/A
  85.0
DDR3_P1_A2_TEMP  Normal      23.0    C       N/A     65.0     N/A
  85.0
DDR3_P1_B1_TEMP  Normal      23.0    C       N/A     65.0     N/A
  85.0
DDR3_P1_B2_TEMP  Normal      23.0    C       N/A     65.0     N/A
  85.0
DDR3_P1_C1_TEMP  Normal      24.0    C       N/A     65.0     N/A
  85.0
DDR3_P1_C2_TEMP  Normal      24.0    C       N/A     65.0     N/A
  85.0
DDR3_P1_D1_TEMP  Normal      24.0    C       N/A     65.0     N/A
  85.0
DDR3_P1_D2_TEMP  Normal      23.0    C       N/A     65.0     N/A
  85.0
DDR3_P2_E1_TEMP  Normal      23.0    C       N/A     65.0     N/A
  85.0
DDR3_P2_E2_TEMP  Normal      23.0    C       N/A     65.0     N/A
  85.0
DDR3_P2_F1_TEMP  Normal      22.0    C       N/A     65.0     N/A

```

85.0

Server server /sensor #

## Viewing Voltage Sensors

### SUMMARY STEPS

1. Server # **scope server {1 | 2}**
2. Server /server # **scope sensor**
3. Server /server /sensor #**show voltage**

### DETAILED STEPS

	Command or Action	Purpose
<b>Step 1</b>	Server # <b>scope server {1   2}</b>	Enters server command mode of server 1 or 2.
<b>Step 2</b>	Server /server # <b>scope sensor</b>	Enters sensor command.
<b>Step 3</b>	Server /server /sensor # <b>show voltage</b>	Displays the voltage sensors for the server.

### Example

This example displays the voltage sensors for the server:

```
Server# scope server 1
Server /server #scope sensor
Server /server /sensor #show voltage
Name           Sensor Status Reading Units   Min. Warning Max. Warning Min. Failure
Max. Failure
-----
P3V_BAT_SCALED Normal      2.973   V      N/A      N/A      2.154
 3.418
P5V_STBY       Normal      4.909   V      N/A      N/A      4.555
 5.452
P3V3_STBY      Normal      3.302   V      N/A      N/A      3.018
 3.602
P1V1_SSB_STBY Normal      1.088   V      N/A      N/A      1.000
 1.205
P1V8_STBY      Normal      1.784   V      N/A      N/A      1.627
 1.980
P1V0_STBY      Normal      0.990   V      N/A      N/A      0.911
 1.088
P1V5_STBY      Normal      1.490   V      N/A      N/A      1.372
 1.637
P0V75_STBY     Normal      0.725   V      N/A      N/A      0.686
 0.823
P2V5_STBY      Normal      2.484   V      N/A      N/A      2.279
 2.734
P12V           Normal      11.977  V      N/A      N/A      11.210
 12.803
P5V           Normal      5.031   V      N/A      N/A      4.680
 5.335
P3V3          Normal      3.276   V      N/A      N/A      3.089
```

## Viewing Voltage Sensors

3.526							
P1V5_SSB	Normal	1.482	V	N/A	N/A	1.412	
1.607							
P1V1_SSB	Normal	1.084	V	N/A	N/A	1.037	
1.178							
PVTT_P1	Normal	0.991	V	N/A	N/A	0.944	
1.061							
PVTT_P2	Normal	0.975	V	N/A	N/A	0.944	
1.061							
PVSA_P1	Normal	0.959	V	N/A	N/A	0.593	
1.170							

Server server /sensor #