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# **SpaceLogic** Room Units Air Quality Sensors – BACnet and Modbus







Note: A subset of models shown

#### **Product Description**

The SpaceLogic SLP Series of air quality sensors for living space is a flexible multisensor platform for use with BAS controllers designed to accept BACnet or Modbus outputs. Housings are available in Medium matte white and Optimum faces available in black and white. All housing types are available with three user interface options: touchscreen, LCD with three buttons and blank. CO<sub>2</sub> and temperature sensors are included with all SLP Series air quality sensors. Models with VOC sensors and relative humidity sensors are also available.

#### **Features**

- Medium matte white housing or optimum glass panel housing available in white or black
- Field calibratable non-dispersive infrared CO<sub>2</sub> sensor
- Replaceable RH element available in 1% & 2% with NIST certificate
- VOC sensor available
- Temperature output on all models
- 61 mm (2.4") backlit color touchscreen and LCD, three button display options available
  - Digital temperature indication (0.1° display resolution of  $^{\circ}\text{F}$  or  $^{\circ}\text{C}$
  - Digital humidity indication (0.1% RH display resolution)
  - Digital CO<sub>2</sub> indication (0 to 2000 ppm display resolution)
  - Selectable temp, RH and fan speed setpoint
  - Configurable screen/button lock and display timeout
  - Override
- Selectable BACnet MSTP and Modbus outputs via RS-485
- 18-24 AWG screw terminals

#### Available Products Matrix

#### Replaceable RH Elements

Model	RH Accuracy	<b>Calibration Certificate</b>	Description
SLXRHS1N	±1%	X	Replaceable RH sensor, 1% with NIST certification
SLXRHS2N	±2%	X	Replaceable RH sensor, 2% with NIST certification
SLXRHS2X	±2%		Replaceable RH sensor, 2%



<sup>\*\*</sup> RH elements are replaceable.

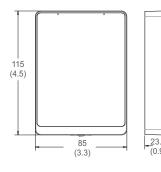
### **Specifications**

Operating Envi	Operating Environment					
Input power	Class 2; 20 t	o 30 Vdc, 24 Vac, 50 to 60	Hz			
Protocol output	BACnet or Modbus via RS-485, selectable					
Operating temp. range	0 to 50 °C (3	2 to 122 °F)				
Operating hu- midity range	0 to 95% RH	non-condensing				
Housing material	High impact	ABS plastic				
CO <sub>2</sub> Sensor						
Sensor type	Non-dispersi	ve infrared (NDIR), diffusion	on sampling			
Output range	0 to 2000 pp	m				
Accuracy	±30 ppm ±3%	% of measured value				
Repeatability	±20 ppm ±1%	% of measured value				
Response time	<60 seconds	for 90% step change				
VOC Sensor						
Sensor type	Solid state					
Output range	0 to 100% AQI for VOC					
Accuracy	±15% of mea	asured value				
Output scale	0 to 1,000 pp	bb of total VOC (TVOC)				
	Level	Ventilation Recommendation	TVOC (ppb)			
	>61%	Greatly increased	>610			
AQI table*	20 to 61%	Significantly increased	200 to 610			
	10 to 20%	Slightly increased	100 to 200			
	5 to 10%	Average	50 to 100			
	0 to 5%	Target value	0 to 50			
RH Sensor						
HS sensor	Thin-film cap	acitive, replaceable				
Accuracy	±2% from 10	to 80% RH @ 25°C (77 °F	=)			
Hysteresis	1.5% typical					
Linearity	Included in a	ccuracy specification				
Stability	±1% @ 20°C	(68 °F) annually for 2 year	irs			
Output range	0 to 100% RH					
Temperature coefficient	±0.1% RH/°C above or below 25 °C (77 °F) typical					
Temperature S	Temperature Sensor					
Sensor type	Solid state, in	ntegrated circuit				
Accuracy	±0.2 °C (±0.4 °F) typical					
Resolution	0.1 °C (0.1 °F)					
Range	0 to 50 °C (32 to 122 °F)					

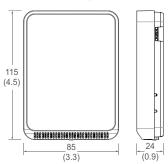
Display Models	<u> </u>
Touchscreen	61 mm (2.4 in), color, backlit, capacitive, 240x300px Setpoint: Temperature, humidity or fan speed selectable Timeout override: Display timeout Lockout override: Touchscreen/button lockout
LCD	52mm (2.05 in), segemented with 3 buttons Setpoint: Temperature, humidity or fan speed selectable Timeout override: Display timeout Lockout override: Touchscreen/button lockout
Setpoints	
Temperature setpoint	Scale: 0 to 50 °C (32 to 122 °F) max., adjustable span
Humidity setpoint	Scale: 0 to 100% RH
Fan speed setpoint	Off, Low, Med., High
Wiring Termina	ıls
Terminal blocks	Screw terminals, 18-24 AWG
Screw terminal torque	0.2 N-m (2.0 in-lbF) max.
Regulatory Info	ormation
Agency approvals	UL 916, European conformance CE: EN61000-6-2 EN61000-6-3 EN61000 Series - industrial immunity EN 61326-1 FCC Part 15 Class B, REACH, RoHS, Green Premium, RCM (Australia), ICES-003 (Canada)

<sup>\*</sup> Air Quality Index for VOC aligns with TVOC levels for IAQ as specified by the WHO (World Health Organization).

### Dimensions mm (in.) **Optimum Housing**



### Medium Housing



Europe: +46 10 478 2000 Asia: +65 6484 7877



#### Installation

1. Remove the cover from the base at the bottom of the device.



2. Position the sensor base vertically on the wall 1.35 m (4.5 ft.) above the floor with the "UP" arrow facing upward. Locate away from windows, vents and other sources of draft. If possible, do not mount on an external wall, as this may cause inaccurate temperature readings.

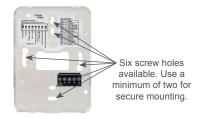




Pull 18 or 22 AWG cable(s) through the hole in the backplate.

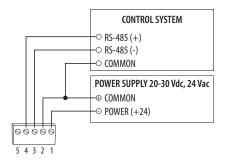


Mount the backplate onto the wall using the screws provided.



5. Connect the wires to the screw terminals. Do not over-tighten the screws.



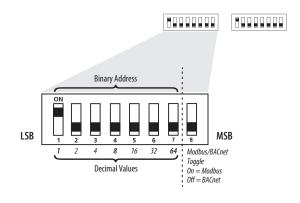


Configure the device.

### **Address Configuration:**

Each device on a single network must have a unique address. Set the DIP switch labeled "ADDRESS" to assign a unique address before the device is connected to the network. If an address is selected that conflicts with another device, neither device will be able to communicate.

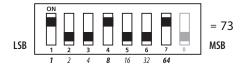
Address the device as any whole number between and including 1 to 127. Note that zero is not a valid address for Modbus; zero is a valid address for BACnet. Positions 1 through 7 of the "ADDRESS" DIP switch designate the address. Position 8 toggles between the Modbus and BACnet communication protocols, as shown in the diagram below. This is the left bank of DIP switches on the sensor.





To set an address using the DIP switch, simply add the values of any switches that are in the ON position.

For example, an address of 73 is set as shown in the diagram below.



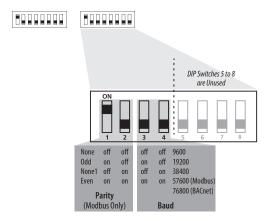
Position number 1 has an ON value of 1, position number 4 has an ON value of 8 and position number 7 has an ON value of 64 (1 + 8 + 64 = 73).

#### **Communications Configuration:**

See the Product Diagram section for the location of the DIP switch labeled "CONFIG". The following parameters are configurable:

- Parity (Modbus only): None, Odd, None1 (one stop bit), Even
- Baud rate: 8600, 19200, 38400, 57600 (Modbus), 76800 (BACnet)
- Autobaud: On, Off

Note: Autobaud may not be able to automatically determine the baud rate in some situations. In this case, set Autobaud to OFF and use the manual baud setting.



#### Example: No Parity, 19200 Baud, Autobaud Off:

1	2	3	4	5	6	7	8
off	off	on	off	off	off	off	off
None		19200	Baud		Unu	ised	

#### **Modbus Point Map Function Codes:**

Function Code	Function
03	Read holding (RW) registers
04	Read input (RO) registers
06	Write single register
16	Write multiple registers
01	Read coils
05	Write single coil
15	Write multiple coils

All of these values correspond to BACnet objects with the same name. See the BACnet Conformance Statement for their definitions.

Note that an attempt to write to "read only" holding registers will give an error and the entire write command will not be executed even if writing to read/write locations were also requested. Exception code 2 is given in this case. "Preserved" means the values is maintained through power outages.

### Input Registers (Read Only):

Register	Description
1	Temperature reading in IEEE 32-bit floating point
3	Humidity reading in IEEE 32-bit floating point
5	CO <sub>2</sub> reading in IEEE 32-bit floating point
7	VOC reading in 32-bit integer
9	Model
42	Serial number

### Holding Registers (Read/Write):

Register	Description
1	Temperature setpoint
3	Humidity setpoint
5	Screen color set
7	Device name
40	Fan speed



### Coils (Read/Write):

-	
Register	Description
1	CO <sub>2</sub> stoplight
2	Touch button disable
3	Invoke CO <sub>2</sub> calibration
4	Temperature (°C)
5	Occupancy override
6	Touch timeout
7	Display shows humidity
8	Display shows CO <sub>2</sub> level
9	Display shows VOC level

### **BACnet Descriptions**

Note: In the tables below, all properties are read-only unless otherwise noted. "Preserved" means the value is maintained through power outages.

### Present\_Value Range Restrictions:

Object Name	Minimum Value	Maximum Value
DEV - Object_ Name	1 Character	65 Characters
Temperature Setpoint Min_Pres_Value Max_Pres_Value	Min_Pres_Value 15 Min_Pres_Value +1	Max_Pres_Value Max_Pres_Value -1 30
Humidity Setpoint Min_Pres_Value Max_Pres_Value	Min_Pres_Value 30 Min_Pres_Value +1	Max_Pres_Value Max_Pres_Value -1 85
Screen Color Set Fan Speed	1	4

### **Standard Object Types Supported:**

Object Type	Supported Optional Properties	Writable Properties
Analog Input - Al	Reliability	None
Analog Value - AV	Min_Pres_Value Max_Pres_Value	Min_Pres_Value Max_Pres_Value Present_Value
Binary Value - BV	None	Present Value
Multistate Value - MSV	None	Present Value
Device - DEV	Max Info Frames Max_Master	APDU_Timeout Max_Master Object_Name

### **Objects Table:**

Room Temperature         Al 1 Temperature in Room           Room Humidity         Al 2         Humidity in Room           CO2 Sensor         Al 3         CO2 Concentration           VOC Sensor         Al 4         VOC Level           Temperature Setpoint         AV 1         Setpoint Value for Temperature           Setpoint Value for Humdidity         AV 2         Setpoint Value for Humdidity           CO2 Stoplight         BV 1         ACTIVE enables CO2 Stoplight INACTIVE disables CO2 Stoplight INACTIVE disables CO2 Stoplight           Touch Disable         BV 2         ACTIVE disables Touch Response           CO2 ABC Cal         BV 3         ACTIVE enables ABC Calibration           INACTIVE disables ABC Calibration         ACTIVE displays temperature in Fahrenhiet INACTIVE displays temperature in Celsius           Occupancy Override         BV 5         ACTIVE means room is not occupied INACTIVE means room is not occupied           Screen Timeout         BV 6         ACTIVE enables Screen Timeout INACTIVE displays humidity on Screen INACTIVE displays humidity on Screen INACTIVE removes humdity from Screen           Display CO2         BV8         ACTIVE displays CO2 level on Screen INACTIVE removes CO2 level from Screen           Display VOC         BV9         ACTIVE displays VOC level from Screen           Display VOC         BV9         ACTIVE displays VOC level on Screen	Object Name	Object Identifier	Object Property
CO2 Sensor AI 3 CO2 Concentration  VOC Sensor AI 4 VOC Level  Temperature Setpoint AV1 Setpoint Value for Temperature Setpoint  Humidity Setpoint AV2 Setpoint Value for Humidity  CO2 Stoplight BV 1 ACTIVE enables CO2 Stoplight INACTIVE disables CO2 Stoplight  Touch Disable BV2 ACTIVE disables Touch Response INACTIVE enables Touch Response  CO2 ABC Cal BV3 ACTIVE disables ABC Calibration INACTIVE disables ABC Calibration  Temperature Units ACTIVE displays temperature in Fahrenhiet INACTIVE displays temperature in Celsius  Occupancy Override ACTIVE means room is not occupied INACTIVE means room is not occupied  Screen Timeout BV6 ACTIVE enables Screen Timeout  Display Humidity BV7 ACTIVE displays humidity on Screen INACTIVE removes humdity from Screen  Display CO2 BV8 ACTIVE displays CO2 level on Screen INACTIVE removes CO2 level from Screen  Display VOC BV9 ACTIVE displays VOC level on Screen INACTIVE removes VOC level from Screen  Screen Color Set MSV 1 Selection for Screen Color Theme		Al 1	Temperature in Room
VOC Sensor         AI 4         VOC Level           Temperature Setpoint         AV 1         Setpoint Value for Temperature           Humidity Setpoint         AV2         Setpoint Value for Humdidity           CO2 Stoplight         BV 1         ACTIVE enables CO2 Stoplight INACTIVE disables CO2 Stoplight           Touch Disable         BV2         ACTIVE disables Touch Response INACTIVE enables ABC Calibration           CO2 ABC Cal         BV3         ACTIVE enables ABC Calibration           Temperature Units         BV4         ACTIVE displays temperature in Fahrenhiet INACTIVE displays temperature in Celsius           Occupancy Override         BV5         ACTIVE means room is not occupied INACTIVE means room is not occupied INACTIVE disables Screen Timeout INACTIVE disables Screen Timeout INACTIVE disables Screen Timeout INACTIVE displays humidity on Screen INACTIVE removes humdity from Screen           Display CO2         BV8         ACTIVE displays CO2 level on Screen INACTIVE removes CO2 level from Screen           Display VOC         BV9         ACTIVE displays VOC level on Screen INACTIVE removes VOC level from Screen           Screen Color Set         MSV 1         Selection for Screen Color Theme	Room Humidity	Al 2	Humidity in Room
Temperature Setpoint         AV 1         Setpoint Value for Temperature           Humidity Setpoint         AV2         Setpoint Value for Humdidity           CO2 Stoplight         BV 1         ACTIVE enables CO2 Stoplight INACTIVE disables CO2 Stoplight           Touch Disable         BV2         ACTIVE disables Touch Response INACTIVE enables ABC Calibration           CO2 ABC Cal         BV3         ACTIVE enables ABC Calibration           Temperature Units         BV4         ACTIVE displays temperature in Fahrenhiet INACTIVE displays temperature in Celsius           Occupancy Override         BV5         ACTIVE means room is not occupied INACTIVE means room is not occupied INACTIVE displays Screen Timeout INACTIVE displays Screen Timeout INACTIVE displays humidity on Screen INACTIVE removes humdity from Screen           Display Humidity         BV7         ACTIVE displays CO2 level on Screen INACTIVE removes CO2 level from Screen           Display VOC         BV9         ACTIVE displays VOC level on Screen INACTIVE removes VOC level from Screen           Screen Color Set         MSV 1         Selection for Screen Color Theme	CO2 Sensor	Al 3	CO <sub>2</sub> Concentration
Setpoint   Humidity Setpoint   AV2   Setpoint Value for Humidity	VOC Sensor	Al 4	VOC Level
CO2 Stoplight  BV 1  ACTIVE enables CO2 Stoplight INACTIVE disables CO2 Stoplight  Touch Disable  BV2  ACTIVE disables Touch Response INACTIVE enables ABC Calibration INACTIVE disables ABC Calibration  Temperature Units  BV4  ACTIVE disables ABC Calibration  Temperature Units  BV5  Occupancy Override  BV5  ACTIVE means room is not occupied INACTIVE means room is not occupied INACTIVE means room is occupied  Screen Timeout  BV6  ACTIVE enables Screen Timeout  BV7  ACTIVE displays temperature in Celsius  ACTIVE means room is not occupied  INACTIVE means room is not occupied  INACTIVE displays Screen Timeout  Display Humidity  BV7  ACTIVE displays humidity on Screen INACTIVE removes humdity from Screen  Display CO2  BV8  ACTIVE displays CO2 level on Screen INACTIVE removes CO2 level from Screen  Display VOC  BV9  ACTIVE displays VOC level on Screen INACTIVE removes VOC level from Screen  INACTIVE removes VOC level from Screen  Screen Color Set MSV 1  Selection for Screen Color Theme		AV 1	Setpoint Value for Temperature
INACTIVE disables CO2 Stoplight  Touch Disable  BV2  ACTIVE disables Touch Response INACTIVE enables Touch Response CO2 ABC Cal  BV3  ACTIVE enables ABC Calibration INACTIVE disables ABC Calibration  Temperature Units  BV4  ACTIVE displays temperature in Fahrenhiet INACTIVE displays temperature in Celsius  Occupancy Override  BV5  ACTIVE means room is not occupied INACTIVE means room is not occupied INACTIVE enables Screen Timeout INACTIVE disables Screen Timeout INACTIVE displays humidity on Screen INACTIVE displays humidity on Screen INACTIVE displays CO2 level on Screen INACTIVE removes cO2 level from Screen  Display CO2  BV8  ACTIVE displays CO2 level on Screen INACTIVE removes CO2 level from Screen INACTIVE removes CO2 level from Screen INACTIVE removes VOC level from Screen Screen Color Set MSV 1  Selection for Screen Color Theme	Humidity Setpoint	AV2	Setpoint Value for Humdidity
Sponse INACTIVE enables Touch Response  CO2 ABC Cal BV3 ACTIVE enables ABC Calibration INACTIVE disables ABC Calibration  Temperature Units BV4 ACTIVE displays temperature in Fahrenhiet INACTIVE displays temperature in Celsius  Occupancy Override ACTIVE means room is not occupied INACTIVE means room is occupied INACTIVE means room is occupied INACTIVE means room is occupied INACTIVE disables Screen Timeout INACTIVE disables Screen Timeout INACTIVE displays humidity on Screen INACTIVE removes humdity from Screen  Display CO2 BV8 ACTIVE displays CO2 level on Screen INACTIVE removes CO2 level from Screen  Display VOC BV9 ACTIVE displays VOC level on Screen INACTIVE removes VOC level from Screen  Screen Color Set MSV 1 Selection for Screen Color Theme	CO2 Stoplight	BV 1	INACTIVE disables CO2
tion INACTIVE disables ABC Calibration  Temperature Units  BV4  ACTIVE displays temperature in Fahrenhiet INACTIVE displays temperature in Celsius  Occupancy Override  BV5  ACTIVE means room is not occupied INACTIVE means room is occupied INACTIVE means room is occupied  Screen Timeout  BV 6  ACTIVE enables Screen Timeout INACTIVE disables Screen Timeout INACTIVE disables Screen Timeout  Display Humidity  BV7  ACTIVE displays humidity on Screen INACTIVE removes humdity from Screen  Display CO2  BV8  ACTIVE displays CO2 level on Screen INACTIVE removes CO2 level from Screen  Display VOC  BV9  ACTIVE displays VOC level on Screen INACTIVE removes VOC level from Screen  Screen Color Set  MSV 1  Selection for Screen Color Theme	Touch Disable	BV2	sponse INACTIVE enables Touch
Units  Fahrenhiet INACTIVE displays temperature in Celsius  Occupancy Override  BV5  ACTIVE means room is not occupied INACTIVE means room is occupied  Screen Timeout BV 6  ACTIVE enables Screen Timeout INACTIVE disables Screen Timeout INACTIVE displays humidity on Screen INACTIVE removes humdity from Screen  Display CO2  BV8  ACTIVE displays CO2 level on Screen INACTIVE removes CO2 level from Screen  Display VOC  BV9  ACTIVE displays VOC level on Screen INACTIVE removes CO2 level from Screen  Screen Color Set  MSV 1  Selection for Screen Color Theme	CO2 ABC Cal	BV3	tion INACTIVE disables ABC Cali-
Override  Occupied INACTIVE means room is occupied  Screen Timeout BV 6  ACTIVE enables Screen Timeout INACTIVE disables Screen Timeout  Display Humidity BV7  ACTIVE displays humidity on Screen INACTIVE removes humdity from Screen INACTIVE removes humdity from Screen INACTIVE removes CO2 level on Screen INACTIVE removes CO2 level from Screen INACTIVE displays VOC level on Screen INACTIVE removes VOC level from Screen Screen INACTIVE removes VOC level from Screen Screen Screen Color Set MSV 1  Selection for Screen Color Theme		BV4	Fahrenhiet INACTIVE displays temperature
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Screen INACTIVE removes CO2 level from Screen  Display VOC BV9 ACTIVE displays VOC level on Screen INACTIVE removes VOC level from Screen  Screen Color Set MSV 1 Selection for Screen Color Theme	Display Humidity	BV7	Screen INACTIVE removes humdity
Screen INACTIVE removes VOC level from Screen  Screen Color Set MSV 1 Selection for Screen Color Theme	Display CO2	BV8	Screen INACTIVE removes CO₂ level
Theme	Display VOC	BV9	Screen INACTIVE removes VOC level
Fan Speed MSV 2 Fan Speed Selection	Screen Color Set	MSV 1	
	Fan Speed	MSV 2	Fan Speed Selection

USA: +1 888-444-1311 Asia: +65 6484 7877



### **Device Objects Table:**

Object Name	Object Identifier	Object Property	Descrip.
Living Space Room Unit XXXXXXX	Object_Device: nnn	Object _Identifier (Read only)	Unique value where nnn is the MS/TP address.

#### **BACnet Protocol Implementation Conformance Statement**

Vendor Name: Schneider Electric Product Name: Living Space Room Unit

Product Model: SLPXXXX

Application Software Version: LSA\_APP\_REV0.xx.xx

Firmware Revision: LSA\_APP\_REV0.xx.xx

**BACnet Protocol Version: 1 BACnet Protocol Revision: 16** 

Product Description: Environmental Sensor BACnet Standardized Device Profile (AnnexL): BACnet Application Specific Controller (B-ASC)

List All BACnet Interoperatvility Building Blocks Supported(Annex K):

DS-RP-B, DS-WP-B, DM-DDB-B, DM-DOB-B, DM-DCC-B

Data Link Layer Options: MS/TP (Clause 9), baud rates, 9600, 19200, 38400, 76800

Device Address Binding: Static Device binding is not supported.

Networking Options: None

Character Sets supported: ISO 10646 (UTF-8)

With sensor base fully installed, align top of cover to mounting tabs on top of sensor base. Swing cover downward until it latches at the bottom.



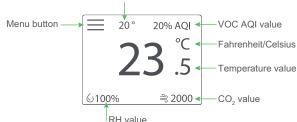
Install locking screw to secure cover in closed position.



### **Touchscreen Operation** Main Screen

The touchscreen user interface displays applicable sensor output values (temperature, RH, CO2 and VOC), setpoint value, menu button and CO<sub>2</sub> stoplight status (if enabled).

Setpoint value (temperature setpoint shown)



#### Menu Screen

The menu screen opens when pressing the Menu button on the main screen. Integrator's submenu, occupancy/override, Fahrenheit/Celsius, settings, setpoint submenu (temp, RH and fan) and CO<sub>2</sub> stoplight buttons are displayed on the menu screen.



Note: RH setpoint will not appear on non-RH models.



#### Menu Button Functions



Integrator's Submenu Press this icon to access the Integrator's menu.







Occupied Override Button Press this icon to provide momentary ground output to the controller



Signals occupied/override call to controller.

Fahrenheit/Celsius Switch Press this icon to display either °C or °F.

Single Press Only

Changes units to Fahrenheit when pressed.

Changes units to Celsius when pressed.

### Settings

This icon provides the ability to change the color scheme of the display.





















Temp Setpoint Adjustment Click this icon to access the setpoint change menu.





**Humidity Setpoint Adjustment** Click this icon to access the setpoint change menu.

Submenu Only





#### Fan Speed

Click this icon to access the fan speed menu.

Submenu Only





#### CO, Stoplight Menu

Click this icon to toggle the CO, Stoplight feature on and off. With CO, Stoplight turned on, the background color of the main screen changes with CO, level. This provides a visual indicator of CO2 levels to the room occupants.

Submenu Only









Yellow & Single Flag CO<sub>2</sub> = 1000 to 1500 ppm



Red & Double Flag CO<sub>2</sub> > 1500 ppm

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## China RoHS Compliance Information

Environment-Friendly Use Period (EFUP) Table

部件名称 有害物质 - Hazardous Substances						
Part Name	铅 (Pb)	汞 (Hg)	镉 (Cd)	六价铬 (Cr (VI))	<b>多溴</b> 联苯 (PBB)	多溴二苯醚 (PBDE)
电子件 Electronic	Х	0	0	0	0	0

### 本表格依据SJ/T11364的规定编制。

- O:表示该有害物质在该部件所有均质材料中的含量均在GB/T 26572规定的限量要求以下。
- X:表示该有害物质至少在该部件的某一均质材料中的含量超出 GB/T 26572 规定的限量要求。

(企业可在此处,根据实际情况对上表中打 \*:的技术原因进行进一步说明。)

This table is made according to SJ/T 11364.

O: indicates that the concentration of hazardous substance in all of the homogeneous materials for this part is below the limit as stipulated in GB/T 26572.

X: indicates that concentration of hazardous substance in at least one of the homogeneous materials used for this part is above the limit as stipulated in GB/T 26572

Z000057-0B

