




SALM1821

Wireless Alarm Light User Manual

User Manual

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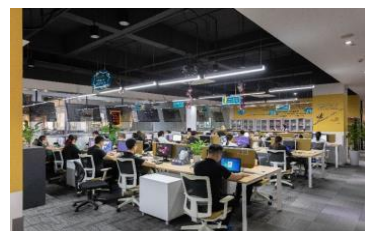
Shenzhen HORB Technology Corp.Ltd. (Hereinafter Referred To As “HORB”) Was Established In 2001 , Headquarter Located In Baoan District Of Shenzhen City, Listed On The National Stock Transfer System(Stock Code: 870762),It Has Been Approved As A National High-Tech Enterprise, A Specialized And Special New Enterprise In Guangdong Province, A "Contract-Abiding And Credit-Worthy" Enterprise In Guangdong Province, The Sixth Innovation Top 100 Enterprise Of Shenzhen City, Post-Doctoral Innovation Practice Base, Shenzhen Vocational And Technical College Practice Base... HORB Is The Vice Director Of Shenzhen Clean Industry System Solution (The Chairman Unit Of The Anti-Static Professional Committee), The Vice President Of Shanghai ESD Association, The Member Of Anti-Static Equipment Of China Electronic Instruments Industry Association, And The Member Of ESD Association Of The United States.

HORB Technology Has Long Been Committed To The Research And Development And Service Of "Controlled Environment Intelligent System Solutions", Based On Clean Control Technology, Electrostatic Protection Technology, Vision And Information Technology. Provide P+1 Smart Clean Space Engineering, P02 Clean Cloud Smart Control Platform, P03 Smart VMI Consumables Integration, +1 Solution Integrating Consulting And Training. Customers Are Mainly Concentrated In High-End Electronics Manufacturing, Biomedicine, Military Industrial Institutes, And Government And Enterprise Units.

We Have Applied For And Approved More Than 30 Invention Patents, More Than 30 Utility Model Patents, 3 PCT International Patent, More Than 10 Software Copyrights, More Than 30 Domestic Trademarks, 4 Madrid Trademarks, About 30 Products CE Certified, National Industrial Production Permit, ISO9001, ISO14001,OHSAS18001, ISO13485 System Certification, LA Certification, Domestic Second-Class Medical Device Certification, Multi-Country Medical Device Product Certification And System Certification. Participation In The Preparation Of 6 National Standards, 1 Industry Standard, 3 Group Standard.

HORB People Do Not Forget The Original Ideals And Aspirations, Always Adhere To Provide Customers With High-Quality Products And Services. Best Resource, Owned By HORB, Is The First Professional Organization In China To Focus On The Research And Promotion Of ESD Protection Technology And Clean Technology, Shenzhen Higher Vocational College's Contracted Industry-University-Research Cooperation Unit, Clean Engineering Professional Teaching Agent, INARTE Authorized China Regional Examination Center Of ESD Engineers Of United States, Senior Consultant Of Multiple Institutions And Enterprises. As Of The End Of 2022, Serving More Than 5,000 Enterprises And Training Professional Talents With More Than 40,000 Person-Times And Efforts To Be Made To Provide The Country With More Professional And Technical Personnel In The Industry.

HORB Is Adhering To The “Being Customer –Focused, Credibility And Openness, Profession And Diligence, Co-Creation And Sharing” Values, To Achieve “To Make Every Enterprise & Family More Safe And Cleaner, To Make Every Customer More Moved, To Make Every Employee More Happier, To Make Every Partner More Satisfied” Corporation Mission, Constantly Improve The Competitiveness Of Enterprises, Has Been Set Up Own Brands: HORB, Clean Cloud, BFN, ECO, KANBO, Yijielianghang, BEST-RESOURCE, Sijiali, Howay,Gradually Formed A Stronger Core Technology And Brand Advantages, Set Up Domestic Offices In Beijing, Yantai, Qingdao, Suzhou, Chongqing, And Chengdu, And Set Up Overseas Subsidiaries In Hong Kong, Thailand, Vietnam, The Philippines, India, And Germany. And With Many Domestic And Foreign Brand Enterprises, Such As: Huawei, OPPO, BOE, Foxconn, Flextronics, Samsung, WD, Seagate, Sony, Military Institutes, Government And Enterprise Units Have Established Long-Term Cooperative Relations.



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1. Product Introduction

The SALM1821 Wireless Alarm Light is a dedicated alarm device matched for the BFN network equipment series. Its main function is to real-timely monitor the real-time working status of BFN network equipment. When an abnormality is detected in the equipment, it can prompt the equipment position timely and accurately, which brings great convenience to visualization and the timeliness of abnormal handling. The device can be used with the system, and can also act as a host to transmit data with BFN network equipment, ensuring no data processing delay caused by network abnormalities.



2. Technical Parameters

No.	Item	Parameter
1	Weight	350g
2	Dimension	L108mm × D117.5mm × H38.5mm
3	Power Supply	DC_12V, 1.5A
4	Communication	Supports RS485, LORA wireless communication
5	Backup Power Supply	Network cable 5V
6	Power Consumption	200mA
7	Response Time	400ms per unit
8	Operating Environment	Temperature: -20°C~60°C; Relative humidity: 0%~100%RH

3. Packing List

No.	Material Name	Quantity
1	Controller Host	1 u
2	DC12V Power Adapter	1 pc
3	Warranty Card	1 cpy
4	User Manual	1 cpy
5	Warning Light	1 pc
6	Certificate of Quality	1 sht

4. Function Introduction

◆ Supported Equipment

✧ Wrist Strap Alarm Network Series

1. BFN-SALM1801S-III Online Monitor for Wrist Strap and Workbench Mat Networked Grounding System
2. BFN-SALM1801S-III-A Online Monitor for Wrist Strap and Workbench Mat Networked Grounding System
3. BFN-SALM1801D-IV Online Monitor for Dual-wire Wrist Strap and Workbench Mat Networked Grounding System
4. BFN-SALM1801D-V Online Monitor for Dual-wire Wrist Strap and Workbench Mat Networked Grounding System
5. BFN-SALM1801D-VI Online Monitor for Dual-wire Wrist Strap and Workbench Mat Networked Grounding System
6. BFN-SALM1801D-VII Online Monitor for Wrist Strap and Workbench Mat Networked Grounding System

✧ Grounding Resistance Monitor Series

1. BFN-NGM-I Grounding Resistance Monitor
2. BFN-NGM-II Multi-channel Grounding Resistance Monitor

✧ Ion Fan Series

1. BFN-701+NET Single-head DC Ion Fan
2. BFN-702+NET Dual-head DC Ion Fan
3. BFN-703+NET Triple-head DC Ion Fan

✧ Clean Room Series

1. CMS3301 Particle Online Monitor
2. CMS3302 Differential Pressure Online Monitor
3. CMS3303 Temperature and Humidity Online Monitor
4. CMS3304 Air Velocity Online Monitor

✧ Other Network Equipment Series

1. BFN-TGM-II Three-channel Workbench Mat Grounding Resistance Online Monitor

◆ Communication and Networking Function

1. Supports RS485 access or wireless LORA access;
2. Supports real-time equipment status monitoring with the Clean Cloud Platform.

◆ Display and Indication Function

✧ LCD Display

1. Real-timely displays the ID of abnormal equipment;
2. The number of monitored equipment can be set with buttons;
3. Backlight is configurable.

✧ Indicator Lamps

Indicator Lamp	Red Light	Yellow Light	Green Light	Off	Remarks
Status	Fault	Standby	Normal	Not Connected	Red, yellow and green color switching

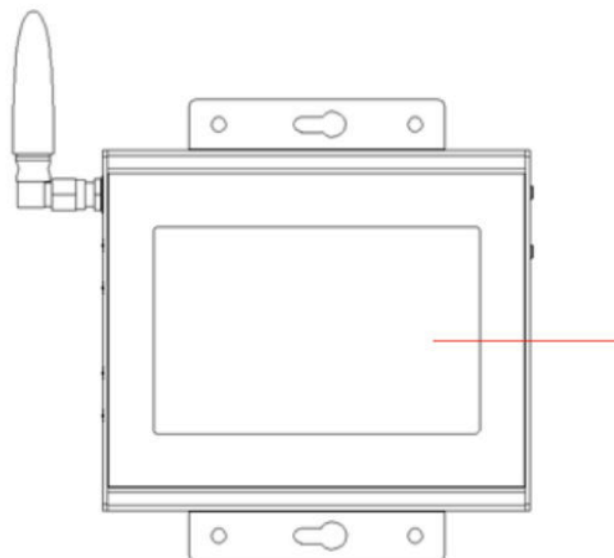
◆ Buzzer Alarm Function

1. The buzzer is configured with the maximum power as standard, and the factory default is the maximum volume.

5. Installation Instructions

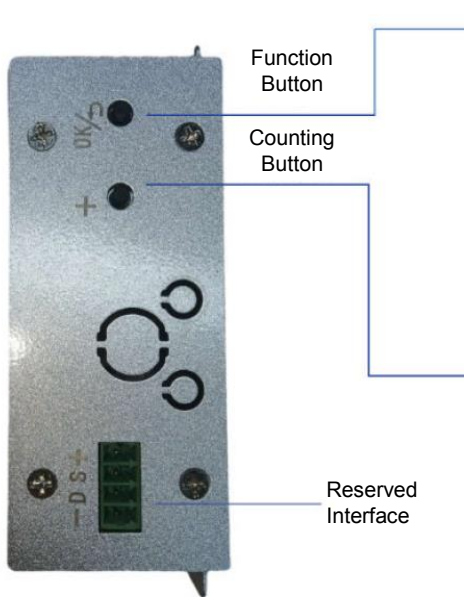
◆ Interface Description

✧ Main Panel



The LCD screen real-timely displays the device numbers of normal or faulty equipment.

✧ Right Side Interfaces



Operation Instructions:

1. Press the function button once to check the number of equipment;
2. Press the function button twice continuously to adjust the number of equipment, and then press it N times to select the digit to be modified. When the digit flashes after selection (a flashing symbol appears at the top right of the display screen), press the counting button to adjust the selected digit;
3. After modification, press the function button multiple times to return until the display shows "0000", then the equipment number setting is successful;
4. Press the function button once first, then press the counting button to enter the backlight setting: the units digit of "0000" on the display flashes, switch between 0 and 1 by pressing the counting button (0 means backlight off, 1 means backlight on), and finally press the function button to confirm the backlight on or off;
5. Long press the function button to exit the setting mode, and the device will exit the setting mode automatically if there is no operation for 5 seconds.

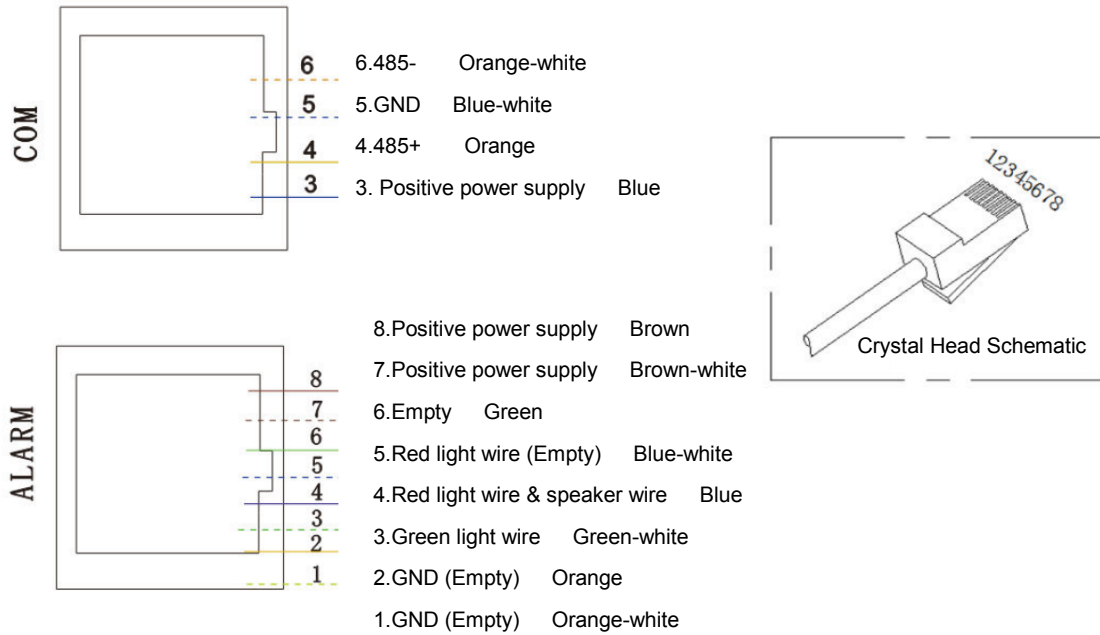
✧ Left Side Interfaces



Interface description

1. ALARM: Can be connected to an external alarm light to realize workshop visualization management and timely handle temperature and humidity environment abnormalities;
2. COM: RS485 (connect to the BFN series network distributor to realize power supply and wired data transmission).

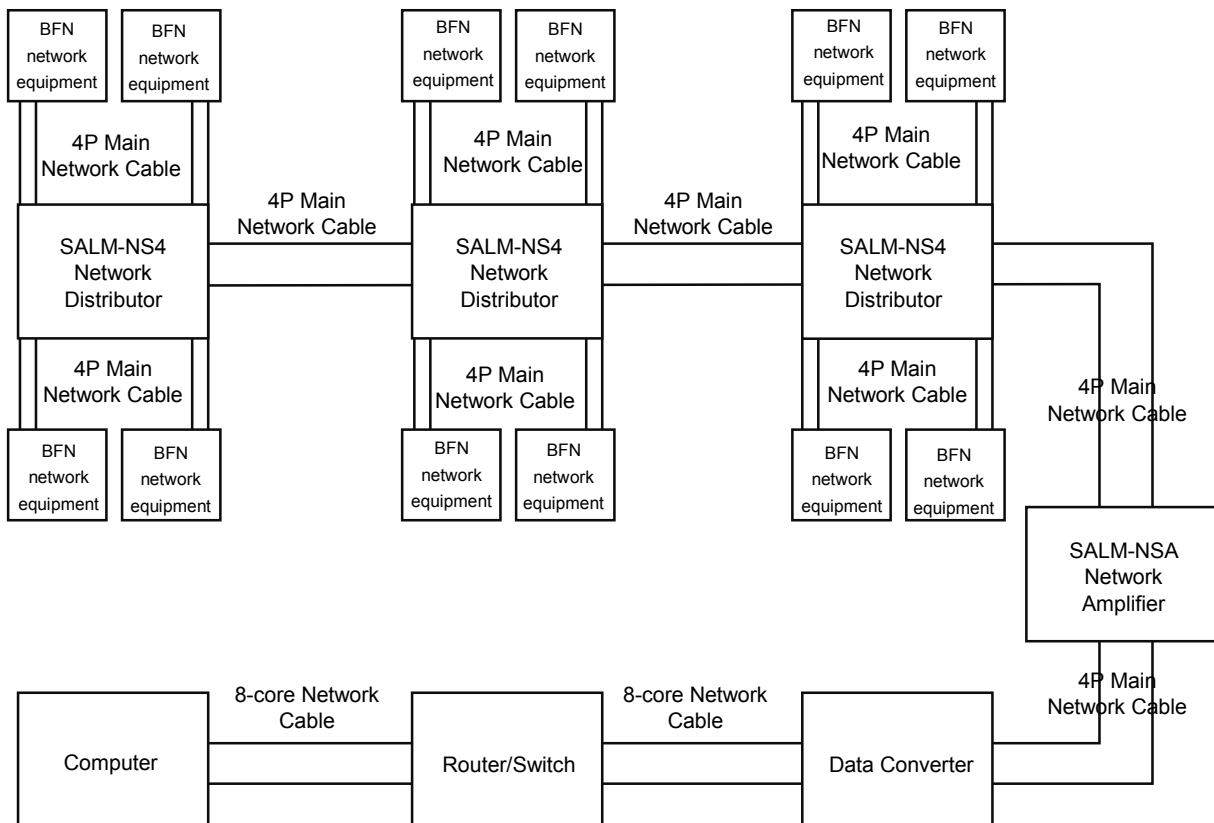
◆ Network Cable Wiring Diagram



◆ Network Schematic

✧ Wired Version

As shown in the figure below: (The wireless alarm light is also a member of the BFN network equipment)



◆ Usage Instructions

1. The wireless alarm light cooperates with the Clean Cloud Platform to monitor equipment status in real time;
2. The LCD screen real-timely displays the device numbers of normal and faulty equipment;
3. When the Clean Cloud Platform is unavailable, the wireless alarm light can act as the Clean Cloud Platform and detect equipment status;
4. Under normal circumstances, the wireless alarm light is used with the Clean Cloud Platform; the Clean Cloud Platform obtains equipment status in real time. When the wireless alarm light detects an equipment abnormality, it will give an alarm and display the abnormal device number flashing on the LCD screen, and the alarm light will turn red and alarm at the same time;
5. When the wireless alarm light detects that the Clean Cloud Platform is unavailable (no query command sent for more than 30 seconds), the wireless alarm light will act as the Clean Cloud Platform and issue query commands on its behalf. When a device disconnection is detected (no response overtime), the screen will flash to display the device number and a circle icon, indicating the device is disconnected; when an equipment status abnormality is detected, the screen will flash to display the device number and an exclamation mark icon, indicating the equipment is abnormal;
6. If there is no any equipment on the bus, the screen will display "0000" by default, indicating no equipment access.

6. Precautions

◆ Adjustment

The SALM1821 Wireless Alarm Light has been fully adjusted by the manufacturer before leaving the factory and is a product that can work continuously and stably, so no adjustment by the operator is required during use.

◆ Maintenance

The SALM1821 Wireless Alarm Light is maintenance-free and can be used continuously. If the product is damaged due to improper use by the operator or other reasons and fails to work normally, please send it to the supplier or manufacturer for repair, and do not disassemble and repair it by yourself.

This manual in its current version is only for users of the SALM1821 Wireless Alarm Light and contains important information about the instrument composition and operation instructions. Due to continuous improvements in the reliability and operational performance of the product, there may be slight differences between the actual situation and the content in this manual.

