



QP-C01/QP-SEN25H

Electrostatic Collection Display Project Manual



Preface

Thank You For Using The Pengpu Electrostatic Sensor Display Terminal. Before Using This Electrostatic Sensor Display Terminal, Please Carefully Read The User Manual And Understand The Information We Provide For You, In Order To Better Use The Electrostatic Sensor Display Terminal.

Attention

To Ensure Safe Operation And Achieve Optimal Product Performance, Please Follow The Following Precautions And Warnings, As Well As Other Information In This Manual. Please Keep The User Manual Safe For Easy Reference At Any Time.

- Do Not Hit The Sensing Part.
- Please Do Not Use With Water Or Wet Hands.
- When Replacing Parts, Please Use Original Factory Parts.
- Unauthorized Disassembly Of This Equipment Is Strictly Prohibited.

Enterprise Introduction

Shanghai Pengpu Electrostatic Technology Co., Ltd. Is Located At Building 1, Lane 160, Longgao Road, Songjiang District, Shanghai. It Is A High-tech Enterprise That Integrates The Research And Development, Manufacturing, Sales, And Service Of Electrostatic Control Equipment And High-efficiency Corona Discharge Equipment. The Main Products Developed And Produced By The Company Are: High-efficiency Corona Discharge Machines, Electrostatic Eliminators, Ion Wind Rods, Electrostatic Polarizing Equipment, Electrostatic Generation Equipment, High-voltage Generators, Electrostatic Testers, Electrostatic Sensors, Ion Fans, Etc. The Company's Products Are Mainly Applied In Multiple Fields Such As New Energy Industry, Semiconductor Industry, New Materials Industry, Packaging And Printing Industry, Plastic Industry, Textile Industry, Optoelectronics Industry, Medical Industry, And Material Surface Corona Treatment. The Company Insists On Seeking Development Through Quality And Survival Through Reputation. In Terms Of Technology, It Dares To Innovate, And Its Product Quality Has Reached The International Advanced Level Of Similar Products, All Of Which Have Passed Ce Certification. For Many Years, The Company Has Provided High-quality And Satisfactory Services To Enterprises Across The Country, Winning The Trust And Praise Of Numerous Enterprises. The Company Not Only Has Advanced Products, But Also Has Established A Comprehensive After-sales Service System To Provide Guidance And Assistance For The Difficulties And Problems Encountered In Production. Through Our Continuous Efforts And Pursuit, We Can Definitely Achieve Mutual Benefit And Win-win For The Enterprise. We Firmly Believe That:

"Innovation Is The Enduring Driving Force Of Enterprises,
And Quality Is The Foundation Of Enterprise Development"

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1、Overview Of Electrostatic Sensors

The QP-C01 Electrostatic Sensor Is A Testing Instrument Developed And Produced By Qipu Electrostatic Technology For Detecting The Surface Electrostatic Voltage Of Objects With Static Electricity. It Adopts Non-contact Measurement Technology To Minimize The Impact Of The Detection Instrument On The Surface Electrostatic Field Of Objects, Ensuring Measurement Accuracy. Real Time Data Collection And High-speed Can Communication Transmission Ensure Real-time Dynamic Response Of Data.

Application Scope

Electrostatic Sensors Are A Common Non-contact Detection Instrument. It Can Be Widely Used In The Electronic, Spray Painting, Plastic, And Other Electrostatic Detection Industries.

2、Product Parameters And Functions

2.1 QP-C01 Product Features

- (1) Beautiful Appearance, Small Size, And Convenient Installation.
- (2) Multiple Detection Distances Can Be Freely Selected And Adjusted.
- (3) Wide Detection Potential Range And High Detection Accuracy.
- (4) The Alarm Threshold Can Be Set, And The Bright Three Color LED Displays The Operating Status.
- (5) Optional Touch Screen Data Display Terminal.
- (6) The Sensor Comes With RS-485 And CAN Communication. Support Multiple Classmate Protocols To Connect RS-232, Ethernet, And WIFI (With Relay Required).
- (7) Real Time Transmission Of Monitoring Data To PC And Server (Requires Relay And PC Client).
- (8) Powerful Data Analysis Capabilities Can Provide Real-time Curves, Historical Curves, And Data Reports. The Data Status Can Be Printed Out (Requires A Relay And PC Client).

2.2 QP-C01 Performance Parameter



Sequence	Technical Specifications
Working Voltage	DC 7 ~ 36V
Working Current	<25mA
Vibration Frequency	<1KHz
Data Response	<50ms
Communication Distance	<500m
Measure Distance	25/50/100/200mm(Default 25mm)
Detection Range	±20KV
Product Size	95.5*21*15.5mm
Materials	PC
Working Environment Temperature And Humidity	0~50°C/0~60%RH(No Freezing Or Condensation)

Sequence	Range And Error		
Distance Number	Detection Distance	Range	Measurement Error
0	25mm	±20000	±5%
1	50mm	±20000	
2	100mm	±20000	
3	200mm	±20000	

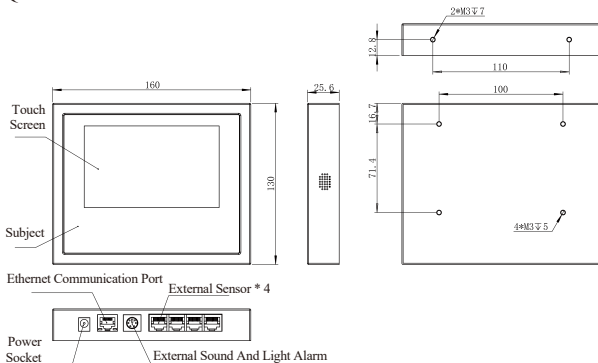
Sequence	Measuring Range
25mm	A Circle With A Diameter Of 80mm
50mm	A Circle With A Diameter Of 200mm
100mm	A Circle With A Diameter Of 500mm
200mm	A Circle With A Diameter Of 1000mm

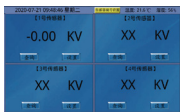


2.3 QP-SEN25H Product Features

- (1) Beautiful Appearance, Small Size, And Convenient Installation.
- (2) The Touch Screen Interface Is Large And The User Experience Is Good.
- (3) Used With QP-C01 Electrostatic Sensor: The Working Distance, Electrostatic Voltage Alarm Threshold, And Compensation Coefficient Of The QP-C01 Electrostatic Sensor Can Be Set.
- (4) There Is A Temperature And Humidity Display Function On The Touch Screen Interface.
- (5) Up To 4 QP-C01 Electrostatic Sensors Can Be Connected, And The Touch Screen Displays The Real-time Static Voltage Values Of The 4 Channels.
- (6) The Communication Protocol With QP-C01 Electrostatic Sensor Is CAN Communication, With Fast Communication Speed.
- (7) If The Static Voltage Of Any QP-C01 Electrostatic Sensor Exceeds The Alarm Value, The Static Voltage Value Will Change From Black To Red, And The Built-in Buzzer Will Sound.
- (8) Reserved Interface For Sound And Light Alarm, Connected To Sound And Light Alarm. If The Static Voltage Exceeds The Threshold, The Sound And Light Alarm Will Work, Providing A Good Warning Function.
- (9) Convenient Query Of The Working Parameters (Working Distance, Positive And Negative Alarm Thresholds) Of Any QP-C01 Electrostatic Sensor
- (10) Real Time Transmission Of Monitoring Data To PC And Server (Requires PC Client Software).
- (11) Powerful Data Analysis Capabilities Can Provide Real-time Curves, Historical Curves, And Data Reports. The Data Status Can Be Printed Out (Requires Pc Client Software).

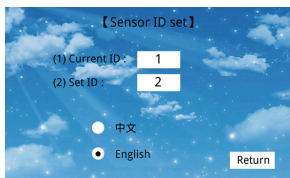
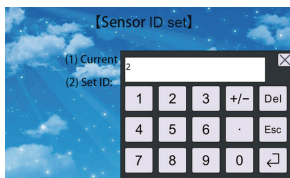
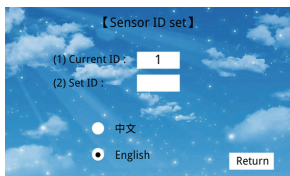
2.4 QP-SEN25H Performance Parameter





Sequence	Technical Specifications
Working Voltage	DC 12 ~ 36V
Working Current	<500mA
Communication Distance	<300m
Communication Protocol	Ethernet/RS485
Temperature Accuracy	±2°C
Humidity Accuracy	±4.5%RH
Screen Display	4 Sensors For Static Electricity Value, Temperature, Humidity
Product Size	150*130*25.6mm
Weight	约660g
Working Environment Temperature And Humidity	0~50°C/0~60%RH(No Freezing Or Condensation)

2.5 QP-SEN25H Display Screen Description



The QP-SEN25H Display Terminal Adopts A Touch Color Display Screen, Which Can Simultaneously Collect And Display Real-time Static Electricity Values And Sensor Working Distance Of Four Sensors. The QP-SEN25H Display Terminal Can Be Used To Set The Working Distance, Maximum, And Minimum Alarm Values Of The Sensor. (Suggested Working Distance Of 25mm, The Farther The Distance, The Lower The Measurement Accuracy)

(1) Interface Description:

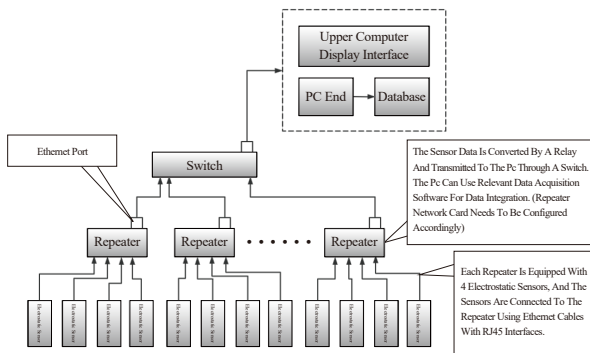
Explanation Of Electrostatic Voltage Values On The Work Interface: The Values In The Red Area Box Are The Electrostatic Voltage Values Of The No.1 Electrostatic Sensor, While The Values Of Other Numbered Sensors Are Unknown, Indicating That The Sensor Is Not Connected.

(2) Under The Sensor Number Setting Page:

- ① The Sensor Number Can Be Set (When Multiple Static Sensors Are Connected To The Display Terminal, The Static Sensor Number Needs To Be Set To Be Different, With A Range Of 1-4).
- ② Can Switch Between Chinese And English Languages. If I Want To Change The Sensor Number From 1 To 2, Press The Sensor Number Setting Button, Enter The Password (Password: 888888), And Enter The Sensor Number Setting Interface. After Setting Up, Press The Return Button To Automatically Return To The Main Work Interface.

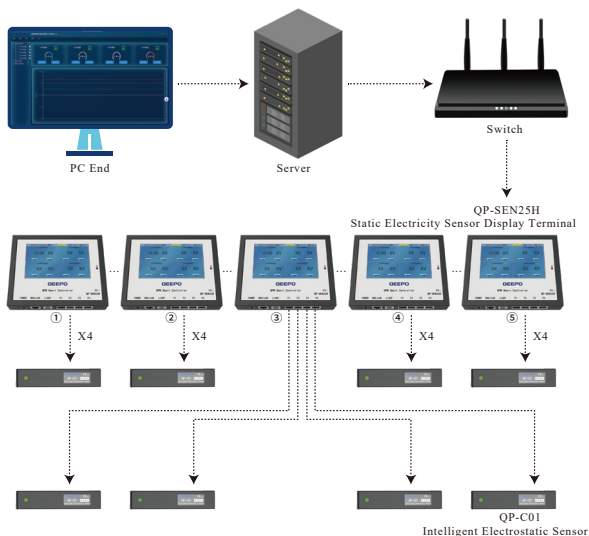
3、 Usage Process And Methods

3.1 QP-SEN25H Usage Process And Methods



- ① Start The Relay And Configure The Relay IP Address And Port. (Must Be On The Same Network Segment As The Pc End)
- ② Set The Sensor Number. (The Number Cannot Be The Same)
- ③ Start The PC Data Acquisition Software And Perform Relevant Configurations To Communicate.

3.2 Hardware Device Deployment





- ① POWER: Connect To Power Adapter GSM25B12-P1J
- ② WAN/LAN: Ethernet TCP Network Port
- ③ LIGHT: Connected To Sound And Light Alarm
- ④ P1~P4: Connected To QPC01 Electrostatic Sensor

3.3 Repeater Network Card Configuration



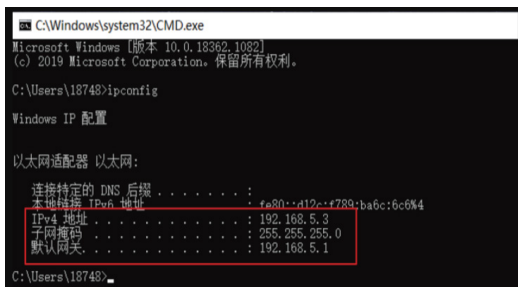
3.4 Computer Ip Address Settings

When Connecting To The Relay And Server, It Is Necessary To Pay Attention To The Ip Address Of Your Own Pc In Preparation For Enabling The Upper Computer Software In The Future.

- (1) The Repeater Is Directly Connected To The Computer Through A Network Cable, And You Need To Configure The Computer's Ip Address Settings Yourself. Open The Computer's Network And Internet ->Change Adapter Options ->Ethernet ->Properties ->IPv4 Protocol ->properties ->Use The Following Ip Address, Ip (192.168.0.117), Subnet Mask (255.255.255.0), Default Gateway (192.168.0.1), And Click Confirm. You Can Refer To The Parameter Configuration In The Following Figure.
- (2) Connect The Switch Directly To The Computer, And Also Connect The Repeater To The Switch. This Connection Needs To Be Modified Once According To The Above Method.

3.5 Querying Ip Addresses

After Configuring The IP Address Of The Computer, We Need To Check If It Matches Our Configuration. Use The Windows+R Key To Open The "Run" Window, Then Enter CMD To Enter The Command Prompt Window. Enter Ipconfig To See The Ip Configuration Information.



```
C:\Windows\system32\CMD.exe
Microsoft Windows [版本 10.0.18362.1082]
(c) 2019 Microsoft Corporation。保留所有权利。

C:\Users\18748>ipconfig

Windows IP 配置

以太网适配器 以太网:

    连接特定的 DNS 后缀 . . . . . : 
    本地连接 IPv6 地址 . . . . . : fe80::d12c:f789:ba6c:6c6%4
    IPv4 地址 . . . . . : 192.168.5.3
    子网掩码 . . . . . : 255.255.255.0
    默认网关. . . . . : 192.168.5.1

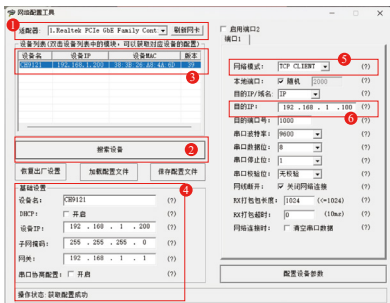
C:\Users\18748>
```

3.6 Parameter Configuration

Open The "Parameter Configuration Software. exe" Software; Click "Search For Devices", The Device List Will Display All Online Modules; Double Click On The Module To Modify Parameters In The Device List And Modify The Module Parameters According To Your Own Needs. After Successful Modification, The Module Is Reset And The Module Parameters Are Saved After Power Failure.



- (1) Choose A Computer Network Card (Note That Laptops Should Not Choose WIFI Network Cards, Virtual Network Cards, Etc.)
- (2) Click To Search For Devices.
- (3) Click On The Network Card Information Found In The Search.
- (4) You Can Configure The Relay Network Card Parameters On Your Own In The Basic Settings Section. (IP: 192.168.0.2 (Excluding 2-255,1 And 117), Gateway (192.168.0.1))
- (5) Configure The Network Mode Of The Relay Network Card (TCP UDP Server And Client)
- (6) When Communicating, The Ip Address Of The Target Host Computer, The Identification Port Number Of The Relay, And The Baud Rate Of The Serial Port Are Required.
- (7) Modify Parameters Such As Baud Rate According To Requirements. Then Click On The Configuration Module.

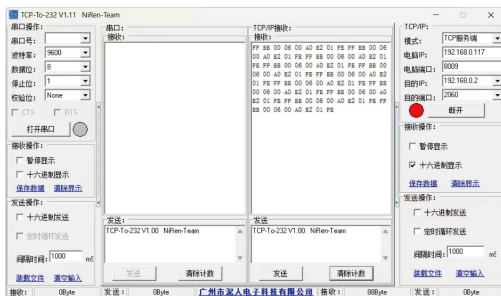


3.7 Functional Testing

Taking The TCP-To-232 V1.11 Software Provided By Mudman Technology As An Example For Functional Testing, This Software Has Already Integrated Serial Port (On The Left Side Of The Software) And Network Communication Function (On The Right Side Of The Software).



After Opening The TCP-232 V1.11 Software, The Device Ip We Set Will Appear On The Right Destination IP, And A Destination Port Will Be Randomly Created. Click To Create, And The Device IP Will Appear On The Destination IP On The Right Side Of The Software, And A Destination Port Will Be Randomly Created. Then We Can Communicate With Each Other. If The Second Software Cannot Be Connected, Please Restore The Factory Settings And Reset It Under The First Software. When Configuring, It Must Be One Client And One Server.



3.8 Software Introduction

QEEPO Electrostatic Is An Industrial Automation Software Based On The Windows Platform. It Provides Real-time Production Data Curves For Visualized Products, Storage Device Production Data, And Can Connect Different Types Of Devices Together To Achieve Data Exchange And Conversion.

Development Purpose: To Meet The Needs Of Users For Digital Production Management And Other Related Fields/industries: Electrical Automation

Software Technology Features: Easy To Operate, High Portability, Compatible With Multiple Products, Production Data Can Be Exported, Saved, And Run In Hardware Environment: WINDOWS INTEL I5 (10th Generation And Above) And Above, 4gb Memory And Above

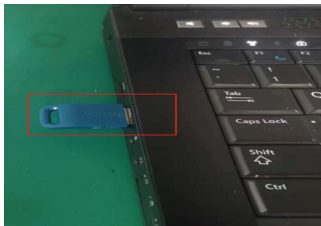


3.9 Usage

3.9.1 After Hardware Device

Deployment Is Completed

- ① Insert Authorized Encryption Dog



② Double Click On JDXC.exe In The Software Package

名称	修改日期	类型	大小
bearer	2024/3/29 8:32	文件夹	
iconengines	2024/3/29 8:32	文件夹	
imageformats	2024/3/29 8:32	文件夹	
platforms	2024/3/29 8:32	文件夹	
printsupport	2024/3/29 8:32	文件夹	
sqldrivers	2024/3/29 8:32	文件夹	
styles	2024/3/29 8:32	文件夹	
translations	2024/3/29 8:32	文件夹	
2_2022-05-11_2022-05-11	2022/5/11 18:27	XLS 工作表	102 KB
D3Dcompiler_47.dll	2014/3/11 18:55	应用程序扩展	3,386 KB
JDXC	2020/4/13 13:37	应用程序	4,051 KB
libEGL.dll	2019/9/2 16:31	应用程序扩展	29 KB
libgcc_s_dw2-1.dll	2018/3/19 21:12	应用程序扩展	112 KB
libGLESv2.dll	2019/9/2 16:31	应用程序扩展	4,408 KB
libstdc++-6.dll	2018/3/19 21:12	应用程序扩展	1,507 KB
libwinpthread-1.dll	2018/3/19 21:12	应用程序扩展	46 KB
opengl32sw.dll	2016/6/14 21:08	应用程序扩展	15,621 KB
Qt5Charts.dll	2019/9/2 20:55	应用程序扩展	1,616 KB
Qt5Core.dll	2020/1/13 9:31	应用程序扩展	6,572 KB
Qt5Gui.dll	2019/9/2 16:30	应用程序扩展	6,778 KB
Qt5Network.dll	2019/9/2 16:30	应用程序扩展	1,872 KB
Qt5PrintSupport.dll	2019/9/2 16:31	应用程序扩展	349 KB
Qt5Sql.dll	2019/9/2 16:31	应用程序扩展	295 KB
Qt5Svg.dll	2019/9/2 17:27	应用程序扩展	359 KB
Qt5Widgets.dll	2019/9/2 16:31	应用程序扩展	6,215 KB
sensor	2022/5/12 9:31	Data Base File	1,492 KB

3.9.2. The Upper Computer Software Has Functions For Querying Parameters, Setting Parameters, Querying Historical Data, And Exporting Historical Data Reports

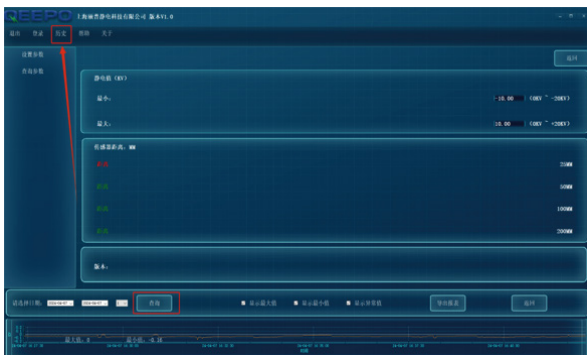
① Query Parameters



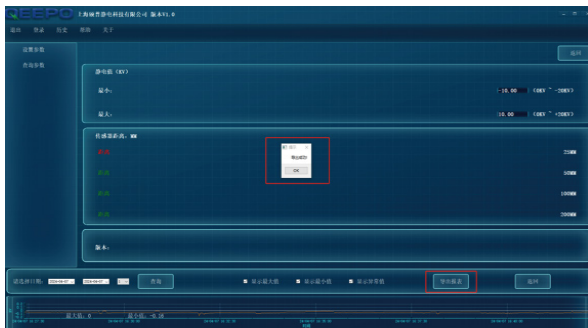
② Set Parameters



③ Query Historical Data



④ Export Historical Data Report



名称	修改日期	类型	大小
bearer	2024/3/29 8:32	文件夹	
iconengines	2024/3/29 8:32	文件夹	
imageformats	2024/3/29 8:32	文件夹	
platforms	2024/3/29 8:32	文件夹	
printsupport	2024/3/29 8:32	文件夹	
sqldrivers	2024/3/29 8:32	文件夹	
styles	2024/3/29 8:32	文件夹	
translations	2024/3/29 8:32	文件夹	
1_2024-04-07_2024-04-07	2024/4/7 16:45	XLS 工作表	58 KB
D3DCompiler_47.dll	2014/3/11 18:55	应用程序扩展	3,386 KB
JDXC	2020/4/13 13:37	应用程序	4,051 KB
libEGL.dll	2019/9/2 16:31	应用程序扩展	29 KB
libgcc_s_dw2-1.dll	2018/3/19 21:12	应用程序扩展	112 KB
libGLSV2.dll	2019/9/2 16:31	应用程序扩展	4,408 KB
libstdc++-6.dll	2018/3/19 21:12	应用程序扩展	1,507 KB
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Qt5Charts.dll	2019/9/2 20:55	应用程序扩展	1,616 KB
Qt5Core.dll	2020/1/13 9:31	应用程序扩展	6,572 KB
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Qt5Svg.dll	2019/9/2 17:27	应用程序扩展	359 KB
Qt5Widgets.dll	2019/9/2 16:31	应用程序扩展	6,215 KB
sensor	2024/4/7 16:45	Data Base File	1,552 KB

3.10 Ethernet Protocol

3.10.1. QP-SEN25H Device ->PC Upper Computer Sends Data (Hex)

When There Is No Sensor: FF BB 00 06 00 A0 E2 01 FE

FF BB (Fixed Start Bit)+00 06 (Subsequent Byte Count Of 5byte+1Byte (00 06 Occupies 2Byte But Counts As 1Byte))+00 (One To Many Broadcast Mode)+A0 (Electrostatic Sensor)+E2 (Xor Check)+01 (Software Version Number)+fe (End Bit)

1 Sensor Connection: FF BB 00 17 00 A0 01 00 00 01 08 00 00 05 00 00 00 64 00 64 DE ED CD 01 FE

FF BB (Fixed Start Bit)+00 17 (22byte+1Byte (0017 Occupies 2Byte But Counts As 1Byte))+00 (One To Many Broadcast Mode)+A0 (Electrostatic Sensor)

+01 (Sensor ID Number: 01 Represents Sensor 1, 02 Represents Sensor 2...)

+00 (Working Status: 00 Normal 01 Sensor Malfunction 02 Static Electricity Exceeding Maximum And Minimum Alarm 03 Sensor Measurement Exceeding Range)

+00 (Work Type: 00 Normal Mode 01 High Precision Mode 02 Large Range Mode)

+01 (Working Distance: 01 Represents 25MM. 02 Represents 50MM. 03 Represents 100MM. 04 Represents 200MM)

+08 (Filtering Depth: 01 02 03 04 05 06 07 08 09 10. 08 Represents 8th Level Filtering Depth)
+00 00 00 05 (Sensor Measurement Value 4byte: The Highest Bit Is 1, Which Represents Positive Static Electricity. For Example, 10 00 00 05=>+0.05KV. If The Highest Bit Is 0, It Represents Negative Static Electricity -0.05KV)

+00 00 (Sensor Value Reset Set To 2Byte. Explanation: Assuming The Current Sensor Displays A -0.09KV Value But The User Wants It To Be Zero At This Point, The Negative 0.09 Needs To Be Offset. At This Point, The User Inputs Positive (10 09)+0.09 To Offset.)

+00 64 (Maximum Static Alarm Value 2Byte Range 0-+20.00KV)

+00 64 (Minimum Static Alarm Value 2Byte Range 0-20.00KV)

+DE ED (End Standard For 1 Sensor Parameter)

+CD (Xor Check)+01 (Software Version)+FE (End Bit)

Two Sensors Connected:

FF BB 00 28 00 A0 01 00 00 01 08 00 00 00 04 00 00 64 00 64 DE ED
03 00 00 02 08 10 00 00 03 00 00 64 00 64 DE ED
DA 01 FE

3.10.1. PC Upper Computer ->QP-SEN25H Device Setting Parameters (HEX)

[ID Number Of Sensor 1 Changed To 2->EE AA 06 A0 01 02 E1 ED]

EE AA (Fixed)+06 (5Byte+1Byte After Length)+a0 (Sensor ID Setting)+01 (Sensor 1)+02 (Set Value: 01 Represents Sensor 1, 02 Represents Sensor 2...)+E1 (Xor Check)+ED (End Bit)

[Sensor 1 Working Distance 50MM ->EE AA 06 A1 01 02 E0 ED]

EE AA (Fixed)+06 (5Byte+1Byte After Length)+A1 (Sensor Distance Setting)+01 (Sensor 1)+02 (Set Value: 01 Represents 25MM, 02 Represents 50MM, 03 Represents 100MM, And 04 Represents 200MM)+E0 (Xor Check)+ED (End Bit)

[Sensor 1 Zeroed ->EE AA 07 A4 01 10 05 F3 ED]

EE AA (Fixed)+07 (6Byte+1Byte After Length)+A4 (Sensor Zeroing)+01 (Sensor 1)+10 05 (Representing+5V)+F3 (Xor Check)+ED (End Bit)

[Set Positive And Negative Alarm Values For Sensor 1->EE AA 09 A3 01 00 C8 00 C8 EF ED]

EE AA (Fixed)+09 (9Byte+1Byte After Length)+A3 (Alarm Value Setting)+01 (Sensor 1)+00 C8 (Representing Maximum Static Alarm Value Of 200+2.00KV)+00 C8 (Representing Minimum Static Alarm Value Of 200+2.00KV)+EF(Xor Check)+ED (End Bit)

4、Precautions

- (1) Before Powering On The Product, Check The Specifications Of The Power Supply Provided. Any Power Supply That Does Not Meet The Specifications Can Cause Damage Or Even Mal-function To The Product.
- (2) Please Operate At The Specified Ambient Temperature (-10~60 ° C).
- (3) Please Maintain A Distance Of At Least 1m Between People And The Product During Testing To Avoid The Impact Of Human Static Electricity On The Test; Testers Must Wear Static Clothing, Static Caps, And Static Shoes.
- (4) Please Ensure That There Is No Insulation Coating On The Surface Of The 3 Diameter Stainless Steel Mounting Rod. Please Do Not Touch The Static Electricity Detection Head During Testing.
- (5) Please Ensure That The Sensor Detection Window Is Not Contaminated By Particles And Dust.
- (6) Please Ensure That There Are No Obstructions Between The Sensor And The Detected Object, Otherwise It Will Affect The Accuracy Of The Detection Results.
- (7) Please Ensure That There Are No Electrical Devices Within The Detection Distance Range Of The Sensor That May Affect The Sensor, Otherwise Internal Equipment And Chip Failures And Damage May Occur.

- (8) Please Keep The Plane Of The Sensor Detection Window Parallel To The Surface Of The Measured Object To Ensure The Accuracy Of Measuring Charged Objects.
- (9) Please Power On For 10 Seconds Before Use. Otherwise, Sometimes The Data Display May Be Unstable.
- (10) Please Do Not Adjust Zero When There Is Static Charge Or During The Electrostatic Measurement Process (Non Electrostatic Calibration Process); If Zeroed During Static Testing, The Displayed Static Value May Be Zero.
- (11) Please Do Not Install It Around High-voltage Equipment, Such As High-voltage Power Supplies, Electrostatic Generators, Ion Generators, And Consumers. High Voltage Can Affect The Performance And Detection Accuracy Of Sensors (Recommended Installation Distance $\geq$ 500MM).
- (12) Please Tighten The Sensor When Installing In High Vibration Areas; Otherwise, Data Errors May Occur.
- (13) Please Regularly Check The Power/communication Cables Of The Product. If There Is Any Damage, Please Replace It Immediately, Otherwise It May Cause Problems Such As Leakage, Poor Communication, And Abnormal Operation.



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Official Website

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