**Digital Display Human Body Voltage Checker**




Digital Display Human Body Voltage Checker can directly detect the electrostatic voltage and display the voltage value on the LCD screen. It is an instrument for electrostatic discharge of human body in flammable, explosive and anti-static places.

The utility model is characterized in that the human body electrostatic discharge resistance is designed reasonably, the static electricity release of the human body is reasonably and effectively controlled, the static discharge time of the human body is prolonged, the energy released by the static electricity of the human body is reduced, and the static electricity of the human body can be safely released. And at the moment of touch, the static voltage carried by the human body can be detected, displayed on the static voltage display, and the change of the static voltage value of the human body during the electrostatic discharge process is more intuitively seen. At the same time, Human Body Voltage Checker touch-sensitive body contact with explosion-proof touch ball is reliable, no moving mechanical parts, sound and light alarm indicates whether the static electricity of the human body exceeds the alarm voltage according to the detected static voltage value.

**【product composition】**

1, buzzer
2, explosion-proof touch ball
3, status indicator
4, static voltage display

5, the sign board
6, pole
7, the ground wire

**【Features】**

1. Ultra low power design, no need to replace the battery during normal use.
2. Touch-sensitive, no mechanical moving parts.
3. The whole epoxy resin is sealed, anti-corrosion, waterproof and moisture-proof.
4. Explosion-proof touch ball, safely discharge static electricity, and human body contact does not produce static electricity.
5. Sound and light alarm indicates whether the human body is in contact with the explosion-proof touch ball and whether the static voltage value exceeds the set range.
6. The grounding wire is independently tested and the grounding resistance is <55Ω to ensure reliable grounding.
7. The human body static voltage is detected by induction and does not directly enter the internal circuit to ensure the safety of the device.
8. OLED static voltage display directly displays the detected static voltage value, which can observe electrostatic discharge more intuitively.
9. After the person leaves the touch ball, the voltage detection continues to sleep after 5S, reducing system power consumption.
10. The grounding abnormal state alarm enters the sleep state after 1 minute, and wakes up immediately after touching the explosion-proof touch ball, and detects the grounding wire state again.

**【Technical Parameters】**

1. Working power: high performance built-in lithium battery
2. Sleep current: <1mA
3. Working current: <5mA
4. Working temperature: -40 ° C ~ 60 ° C
5. Response time: <1s
6. Grounding resistance: ≤55Ω
7. Explosion-proof grade: ExibIICT6 Gb
8. Static voltage resistance: ±20KV
9. Alarm mode: sound and light alarm (>90dB, 30cm linear distance measurement)

**[mechanical parameters]**

1. Pole material: 304 stainless steel
2. Pole diameter: Φ38mm
3. Vertical wall thickness: 1.0mm
4. Product height: 1m
5. Touch ball diameter: Φ90mm
6. Mounting flange wall thickness: 3.0mm
7. Ground cable length: 3m linear PU cable

**[product manual]**

Dormancy
When the human body is not in contact with the explosion-proof touch ball, the Human Body Voltage Checker is in a sleep state, the static voltage display is not displayed, and the buzzer does not alarm.

Alarm status
When the human body is in reliable contact with the explosion-proof touch ball, the Human Body Voltage Checker senses the human body, and when the human body is detected to reach the alarm voltage, the alarm state is entered, the static voltage display displays the static voltage value, the buzzer alarms, and the red light flashes. Static electricity is being released, please don't leave!

normal status
When the human body and the explosion-proof touch ball are in reliable contact, the Human Body Voltage Checker senses the human body, and when the human body is charged less than the alarm voltage, the normal state is entered, the static voltage display displays the static voltage value, the buzzer does not alarm, and the green light flashes. The hand can leave the touch ball and go to sleep after 5 seconds. After the static electricity is released, you can enter the hazardous area to work.

Ground alarm status
When the grounding wire is disconnected, the Human Body Voltage Checker is in the grounding alarm state, the static voltage is not detected, the static voltage display is not displayed, the buzzer alarms, and the yellow light flashes. After the grounding alarm lasts for 1 minute, it enters the sleep state. When the explosion-proof touch ball is touched again, the system wakes up and continues to detect whether the grounding is normal.

**[Application]**
For your safe production, we recommend that you use the Human Body Voltage Checker at the following locations:
1. Oil depots and railway oil platforms, tank escalators and tank entrances, etc.
2, the pump room, oil storage and transportation needs to eliminate the static electricity of the human body
3. Gas station unloading port, self-service gas station, automatic tanker, etc.
4. Other places where it is necessary to eliminate the static electricity of the human body
5. Chemical industry, oil depot, warehouse, factory building, workshop entrance, etc.
6. Sampling, temperature measurement, gauge operation, tank filling and other places for petrochemical enterprises