

VECTECH494 手腕帶測試儀

Wrist Strap Tester (System Tester)

操作手冊

一、概述：

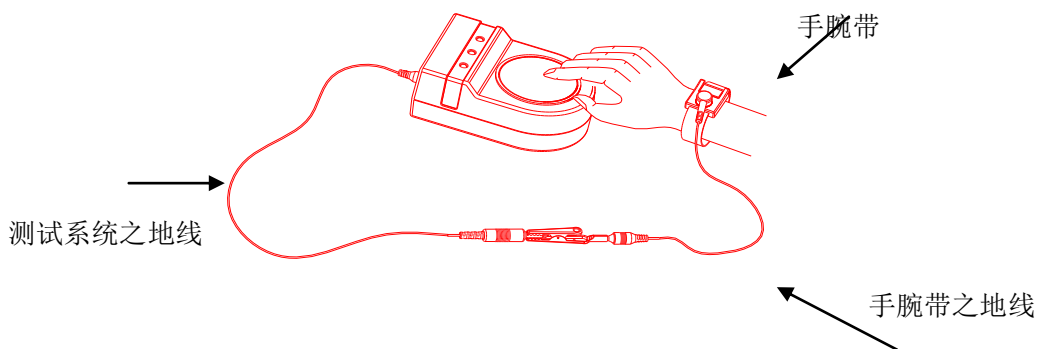
人體身上的接地設施，比如接地手腕帶，是將人體身上產生的電荷消耗掉的最主要的方法，基於上述原因，對於接地手腕帶品質以及員工佩帶是否合理都需要進行測試。

二、規格：

1. 系統接地良好阻值範圍： $1\text{ M}\Omega \sim 35\text{ M}\Omega$
2. 電源：9V 電池
3. 精度： $\pm 10\%$
4. 外形尺寸：117mm (L) \times 80mm (W) \times 40mm (H)
5. 重量：110 g

三、操作：

1. 在測試儀後面的電池盒內裝入 9V 電池。
2. 插入測試系統地線的香蕉插頭以便連接手腕帶。
3. 戴上手腕帶，須緊貼著手腕。
4. 將手腕帶地線接頭與測試系統地線接頭相連。
5. 按下測試儀正面的測試板（圖 1），可看到指示燈亮或聽到聲音訊號。
 - (1) 若綠色“GOOD”燈亮，且聽到聲音訊號，則接地系統安全。
 - (2) 若紅色“LOW”燈亮，則需檢查手腕帶與地線的電阻，是否小於 $750\text{K}\Omega$ 。
 - (3) 若紅色“HIGH”燈亮，請檢查手腕帶是否手腕上佩帶是否太松，再檢查手腕帶接地線是否斷裂。



注意：如果經過大約 50000 次操作後，聲音訊號明顯變低，或指示燈亮度明顯變暗時，請更換電池。

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Operation Instruction

I .General

Personnel grounding devices such as wrist straps are the primary method to minimize charge generation on the human body. They must be able to drain this charge as rapidly as it is generated. For this reason it is important to test wrist straps on a regular basis to ensure they are functioning properly and that the test results be recorded.

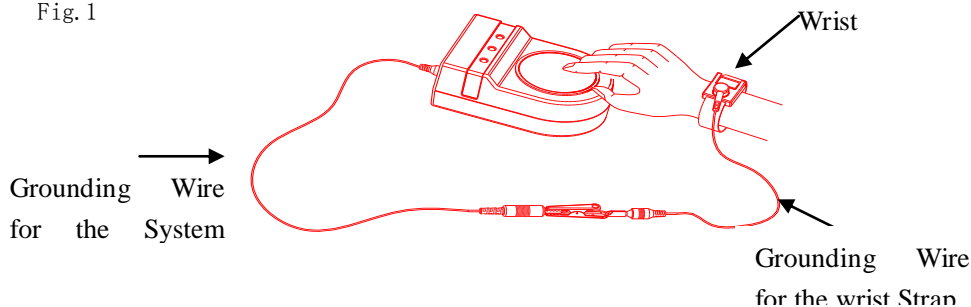
II .Specification

- The grounding system 'PASS' resistor range 1 M Ω ~35 M Ω
- Power supply...9 volt battery
- Changeover point... $\pm 10\%$
- Dimensions...117mm(L) \times 80mm(W) \times 40mm(H)
- Weight...110g

III.Operation

- Insert a 9V battery into the battery compartment at the rear of the unit.
- Insert the banana clip of the grounding wire into the grounding terminal at the top of the unit, in order to connect wrist strap.
- Attach the wrist strap so that it firmly contacts the wrist.
- Connect the grounding wire to the grounding wire of the wrist strap.
- Press the test pad on the front of the unit .(Fig.1)A LED lamp and an audible signal will be heard.
-)If the green "Good" lamp lights up. The grounding system is safe.
-)If the red "Low" lamp lights up. Check the resistance of the wrist strap grounding wire as it may be lower than 750K.
-)If the red "High" lamp lights up. Check the wrist strap to make sure it firmly contacts the wrist. Also check the resistance of the wrist strap grounding wire to make sure the grounding wire is not broken.

Fig.1



Caution: If after approx 50,000 testing operations. The audible signal is no longer heard but the green "Good" lamp still lights up. Replace the battery.