

## 882IS Intrinsically Safe Indicator

# Battery Tester Instructions

This document contains important 882IS battery tester safety, operation and set up instructions. Before using the battery tester, please read all instructions and cautionary information on the battery tester and the 882IS. More information on the 882IS indicator can be found at [www.ricelake.com/882IS](http://www.ricelake.com/882IS).



Manuals and additional resources are available from Rice Lake Weighing Systems at [www.ricelake.com/manuals](http://www.ricelake.com/manuals)

Warranty information can be found on the website at [www.ricelake.com/warranties](http://www.ricelake.com/warranties)



**Follow all manufacturer safety precautions for the indicator, the battery charger and the battery.**

**Only use Rice Lake Weighing Systems approved charger for 882IS indicator batteries.**

**Batteries produce explosive gases and can explode.**

**Because hydrogen gas may be present, disconnect battery charger unit from AC power before connecting or disconnecting output connectors from the battery.**



**Battery pack must be removed from the 882IS unit and taken to a non-hazardous location before testing.**

**Do not expose the tester to rain or moisture.**

**Do not disassemble.**

**Disconnect the tester from both the charger and the battery before maintenance or cleaning.**



**Connections to the battery must be made in the non-hazardous area before connecting the cable to the 882IS indicator.**

**Battery must be fully charged for a healthy battery confirmation.**

**If modifications are made to the battery or it is changed in any way including field repair or modification, the FM approval is void and all warranties, expressed or implied, are void. The customer becomes fully responsible and liable for all such modifications.**

## Introduction

The 882IS Battery Tester is an instrument designed to test the six-volt, sealed, lead-acid batteries in the 882IS. While the instrument is connected to the battery, it continuously measures the battery terminal voltage. When the **Apply Load** button is pressed, the instrument measures voltage of the battery while it is under a full load. While the tester is connected to both the battery and the IS6V2 battery charger, and the **Apply Charge** button is pressed, the instrument measures voltage going into the battery from the battery charger.

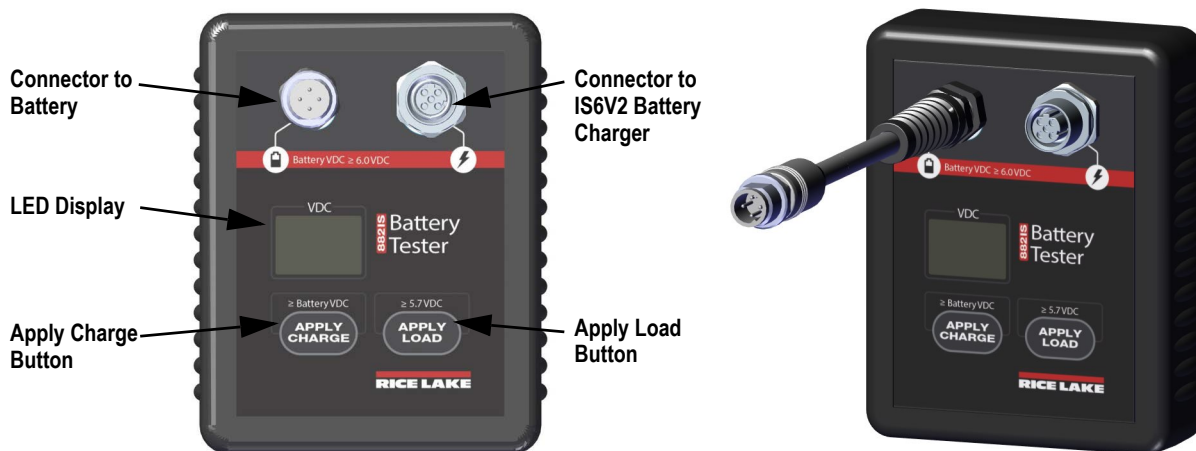


Figure 1. 882IS Battery Tester

## Battery Test Connection Procedure.

1. Disconnect the 882IS battery cable from the 882IS indicator.
2. Remove the battery pack from the battery mount and take to a non-hazardous area.
3. Remove the lockout device and battery cable from the battery.
4. Plug the connector from the battery charger into the connector on the battery tester and the the connector from the battery tester into the connector on the battery.
5. Connect the charger power cord to a properly grounded outlet supplying the correct input voltage.

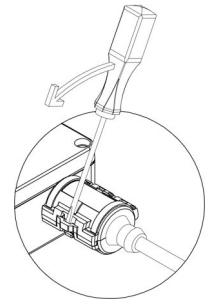


Figure 2.  
Remove Lockout Device



**Note** *The 882IS battery tester is powered by the battery being tested. If the tester does not illuminate, the battery voltage is too low to power the tester or the protection circuit in the battery pack is damaged.*

### Apply Load

When the **Apply Load** button is pressed, the instrument measures voltage of the battery while it is under a full load.

Press **Apply Load** on the battery tester for a few seconds to test the health of the battery.

Healthy Battery Results	Weak Battery Results
Displayed voltage: <ul style="list-style-type: none"> <li>• Immediately decreases slightly</li> <li>• Displays a voltage of a value greater than or equal to 5.7 VDC</li> </ul>	Displayed voltage: <ul style="list-style-type: none"> <li>• Fully charged battery displays a voltage of a value less than 5.7 VDC</li> </ul>

Table 1. Apply Load Result Parameters

### Apply Charge

When the charger and tester are connected to power and the **Apply Charge** button is pressed, the instrument measures voltage going into the battery from the battery charger.

Press **Apply Charge** on the battery tester for a few seconds to test the health of the battery barrier and connection to the charger.

Healthy Battery Barrier and Charger Results	Unhealthy Battery Barrier and Charger Test Results
Displayed voltage: <ul style="list-style-type: none"> <li>• Slowly increases as button is held down</li> </ul>	If the voltage does not increase, it could mean: <ul style="list-style-type: none"> <li>• Battery charger is not connected, not powered up, or is defective</li> </ul> If the voltage is not displayed, it could mean: <ul style="list-style-type: none"> <li>• The battery pack is not connected</li> <li>• The battery pack protection circuit is defective</li> <li>• There is physical damage to the battery, connector or cable</li> </ul>

Table 2. Apply Charge Result Parameters



**To disconnect the battery tester from the battery, follow the connection steps in reverse order. If battery is tested to be weak or unhealthy, do not attempt to repair the battery. Call Rice Lake Weighing Systems technical support at 800-472-6703.**



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230 W. Coleman St. • Rice Lake, WI 54868 • USA  
U.S. 800-472-6703 • Canada/Mexico 800-321-6703 • International 715-234-9171 • Europe +31 (0)26 472 1319