

U-mic

Below Ground Insulation Checker

User Manual

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Revision 1.0



Testing Battery Voltage

In order to test the battery inside of the U-MIC please follow the instructions below.

1. Disconnect the leads from the U-MIC or simply make sure that the contact clips are not contacting anything.
2. Press the “Test” button on the U-MIC
3. If all 3 LED are illuminated, the battery is low and requires charging before the unit is fully functional. If the “Open” yellow light illuminates it means that the battery is ready to go.

Charge Battery

In order to charge the battery of the device please follow the instructions below.

1. Disconnect all leads from the unit.
2. Connect a micro USB onto the port that is located in between the 2 shrouded lead plugs.
Note: The micro USB can be powered through a 5V wall adapter or from a computer’s USB port.
3. To ensure that the battery is charging, the charging light should be illuminated.

Testing Procedure

1. Test U-MIC battery to make sure that the battery is at a recommended level.
Refer to [Testing Battery Voltage](#) for instructions
2. Make sure that the pipe is not under any sort of cathodic protection.
3. Connect black lead to the pipe.
4. Connect red lead to the casing.
5. When both leads are connected, press the ‘Push to Test’ button to start the testing procedure.
6. The appropriate LED will illuminate according to the result of the test.

Please note: If the ‘Push to Test’ button is held down; the Test Result LED will remain illuminated until the button is released. If the ‘Push to Test’ button is pressed once and released, the Test Result LED will illuminate for 5 seconds.

Test Results

Pass

- If the results return as “**PASS**”, the green LED will illuminate and means that the casing is clear.

Open

- If the results return as “**OPEN**”, the yellow LED will illuminate. When open result is shown it means that the U-MIC was unable to charge the pipe. Check if the leads are properly plugged into the device and make sure that the leads are not broken.

Short

- If the results return as “**SHORT**”, the red LED will illuminate according to the how severely electrolytically shorted the casing is. Below are the levels of severity with the highest severity as solid red and the least being a slow flashing of the red LED.

		Green LED	Yellow LED	Red LED
Severity	Low	BLINK	OFF	BLINK
	High	OFF	OFF	BLINK
	Critical	OFF	OFF	SOLID