# Receiver Self-Test



- Materials
- Configuration file (Self-Test)
- Magnetic Channels testers
- Electric Channels testers
- GPS connection
- Battery connection
- Evaluate in EMpower
- Acceptance Report
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# **Materials**



| Qty | Description   |
|-----|---|
| 1   | Computer with an EMpower license and SD card reader     |
| 1   | SD card   |
| 1   | Receiver under test                                     |
| 3   | Magnetic channels test jig                              |
| 1   | GPS antenna and tripod assembly                         |
| 1   | GPS signal cable, GPS antenna to receiver               |
| 1   | Self Test JIG   |
| 5   | Test lead Banana to Banana 2 Black, 2 Red, and 1 Yellow |
| 1   | 12v cable, Battery to Receiver                          |
| 1   | 12v Battery   |

## **Configuration file (Self-Test)**

1 Prepare Create instrument configuration files

Prepare - EMpower

Recording

Evaluate

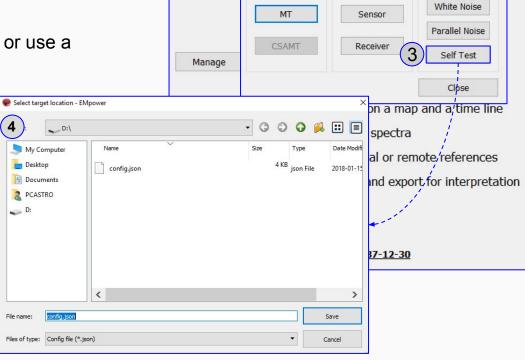
View and edit instrument configuration files

Receiver Type: MTU-5D

Calibration

System Tests

- 1. Open Empower and click **Prepare** button
- 2. Select the Receiver Type
- 3. Click the **Self-Test** button
- **4.** Insert the **SD card** in the computer slot or use a USB memory card reader.
- Click File menu / Save or Ctrl+S
  (see the user manual page 6)

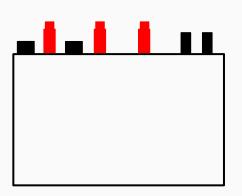


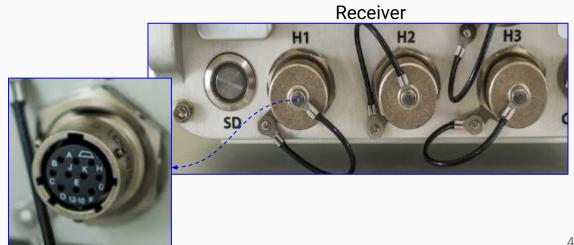
# **Magnetic Channels testers**

Connect a magnetic channels tester to each magnetic channel of the receiver (H1, H2, H3)



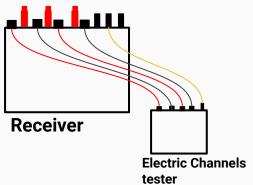






#### **Electric Channels tester**

- Use the Black wires to connect South-South and West-West
- Use the Red wires to connect North-North and East-East
- **3.** Use the Yellow wire to connect the Ground connectors



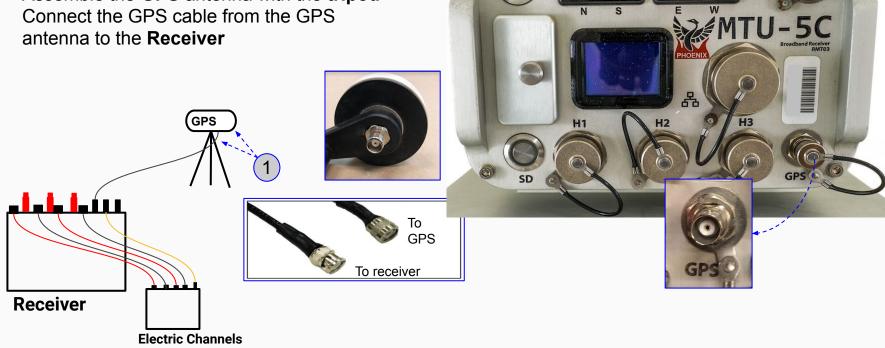


12V

## **GPS** connection

- Assemble the GPS antenna with the tripod
- 2.

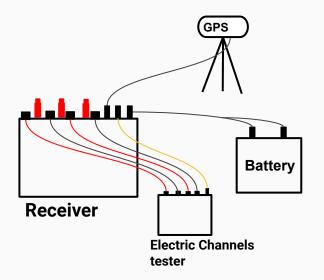
tester



12V

# **Battery connection**

Use the battery cable to connect the MTU-5C receiver with the battery



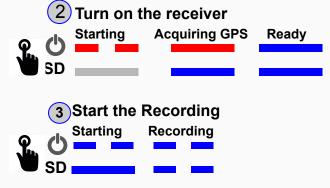


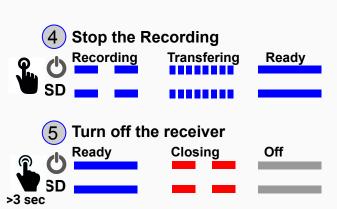


#### Start the test

- Insert the SD Card on the receiver.
- **2.** Press the Power button briefly, wait until the receiver is ready to record
- **3.** To start the recording press the Power button briefly
- **4.** After 5 minutes, stop the recording by pressing the **Power** button briefly and release
- 5. To turn off the receiver press the Power button for 3sec and release

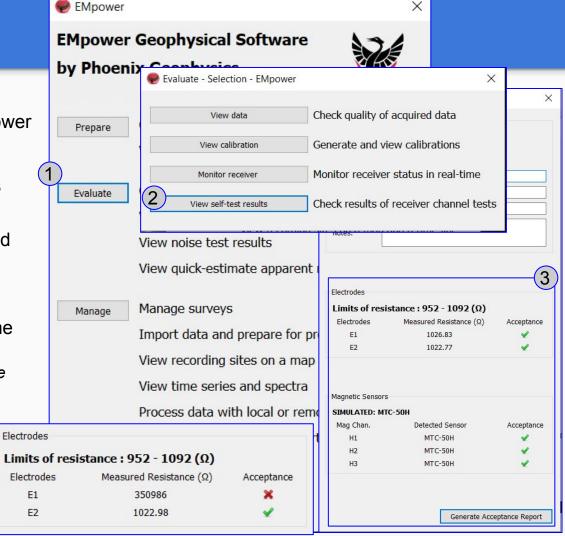






### **Evaluate in EMpower**

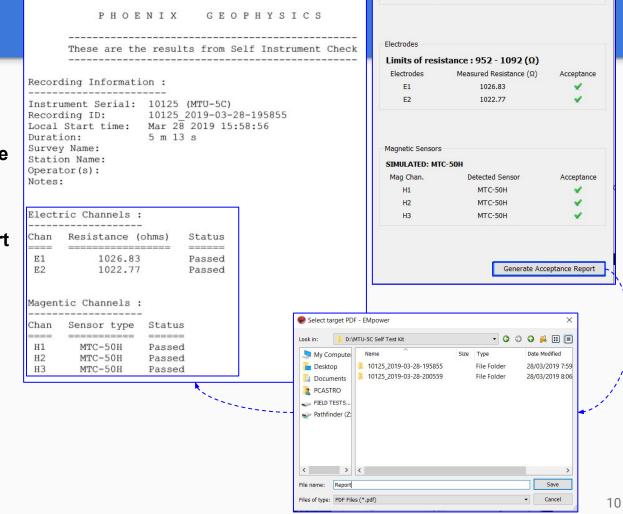
- 1. Open the **Evaluate** module in EMpower
- 2. Select View self-test results
- **3.** Review the results, the check marks should be green for every channel
- If the Acceptance result shows a red cross
  - Check the connections and repeat the test
  - If the receiver repeats the same result, contact Phoenix Geophysics for support (see the last page)



### **Acceptance Report**

#### To export the report:

- 1. Click the **Generate Acceptance**Report button
- **2.** Type the file name (PDF file)
- 3. Review the Acceptance Report



# **Technical Support Contact**



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**Phone:** + 1 416 491 7340