# Receiver Self-Test



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

# **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)**

Create instrument configuration files Prepare

Prepare - EMpower

Recording

Evaluate

View and edit instrument configuration files

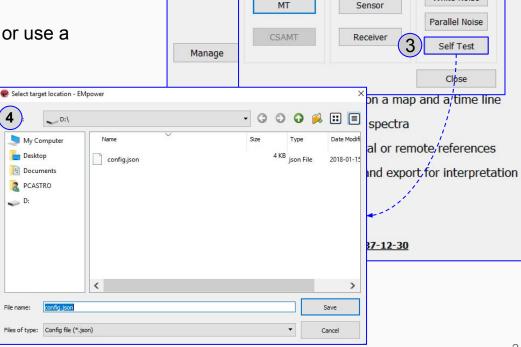
Receiver Type: MTU-5D

Calibration

System Tests

White Noise

- Open Empower and click **Prepare** button
- 2. Select the **Receiver Type**
- 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)

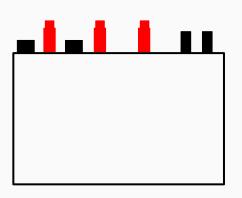


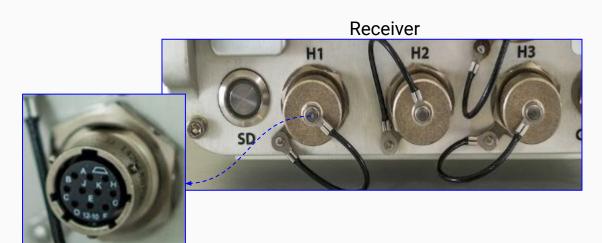
# **Magnetic Channels testers**

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



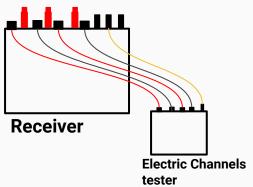






#### **Electric Channels tester**

- 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

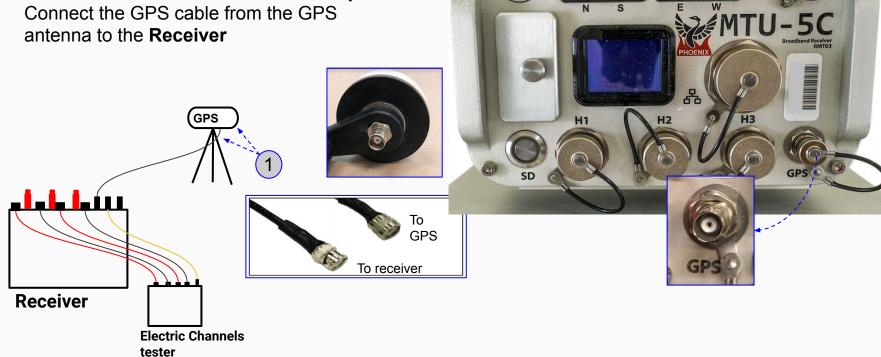




12V

#### **GPS** connection

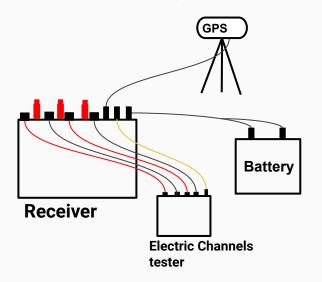
- Assemble the GPS antenna with the tripod
- 2.



12V

# **Battery connection**

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



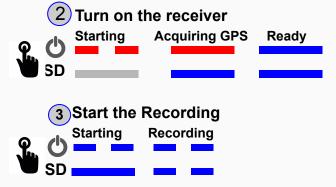


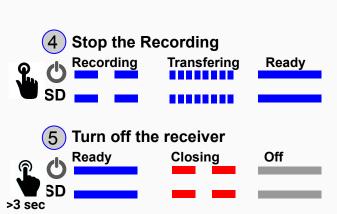


#### Start the test

- 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

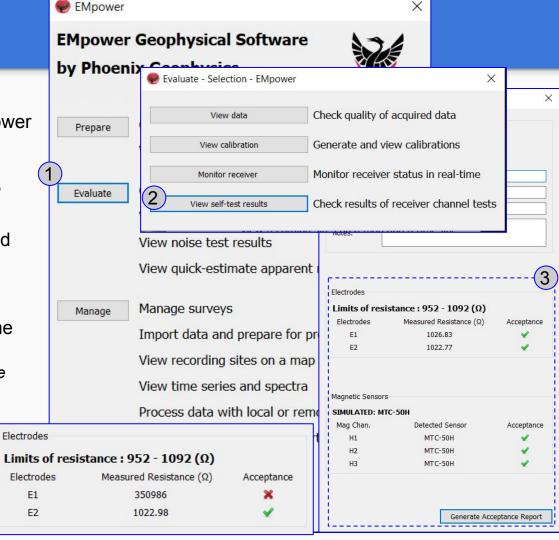






## **Evaluate in EMpower**

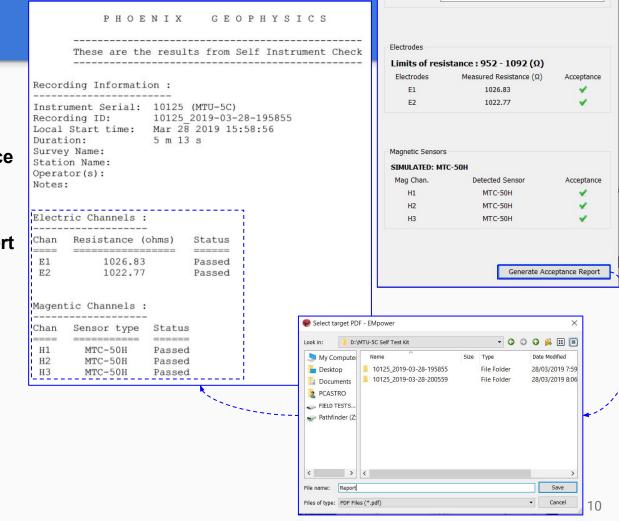
- 1. Open the **Evaluate** module in EMpower
- 2. Select View self-test results
- **3.** Review the results, the check marks should be green for every channel
- If the Acceptance result shows a red cross
  - Check the connections and repeat the test
  - If the receiver repeats the same result, contact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