

# Faraday Cages

for HPPR1 & HPPR2  
Installation Manual

Version 001



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This manual describes the units as they are at the time of printing. On request, the manufacturer shall supply circuit diagrams, lists of components, descriptions, calibrating instructions and any other information for use by qualified personnel of the user, in charge of repairing the parts of the unit which have been stated by the manufacturer to be "repairable". Such supply shall in no event constitute permission to modify or repair the units or approval of the same.

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This unit is not designed for any type of use which is not specifically described in this manual. Such use may be hazardous.

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# General information

# 1

## **Introduction**

**1.1**

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The HPPR1 Faraday cage (P/N: W1345074) and HPPR2 Faraday cage (P/N: W1345075) are specifically designed for the radiated interference pollution leaking.

## **RF protections**

**1.1.1**

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The RF protection is for 75 dB from 6 MHz to 15 MHz,  
for 84 dB from 15 MHz to 30 MHz,  
for 90 dB from 30 MHz to 900 MHz.

## **Cage overview**

**1.1.2**

- 
- The size of the cages is 500 mmH x 400 mmW x 600 mmD.
  - The weight of one cage is 29 kg.
  - The material used for manufacture is red cooper.

Faraday Cages connections

1.2

HPPR1 Faraday Cage

1.2.1

Figure 1.1. HPPR1 Faraday cage views

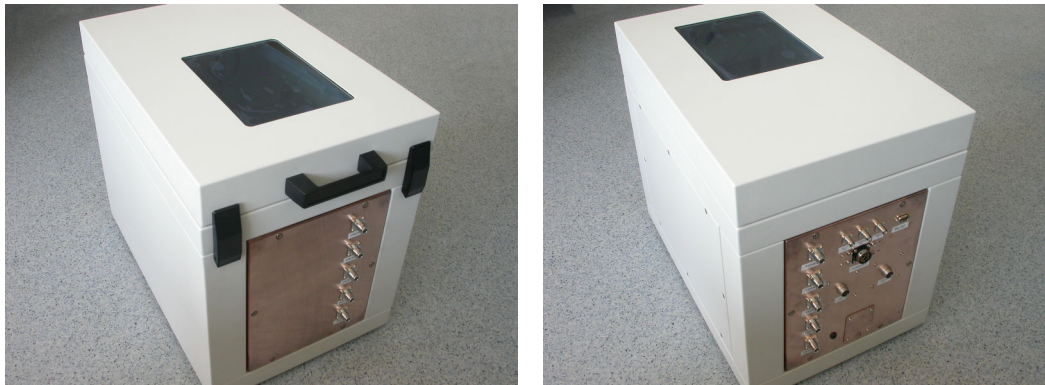


Figure 1.2. HPPR1 Inputs and outputs connectors

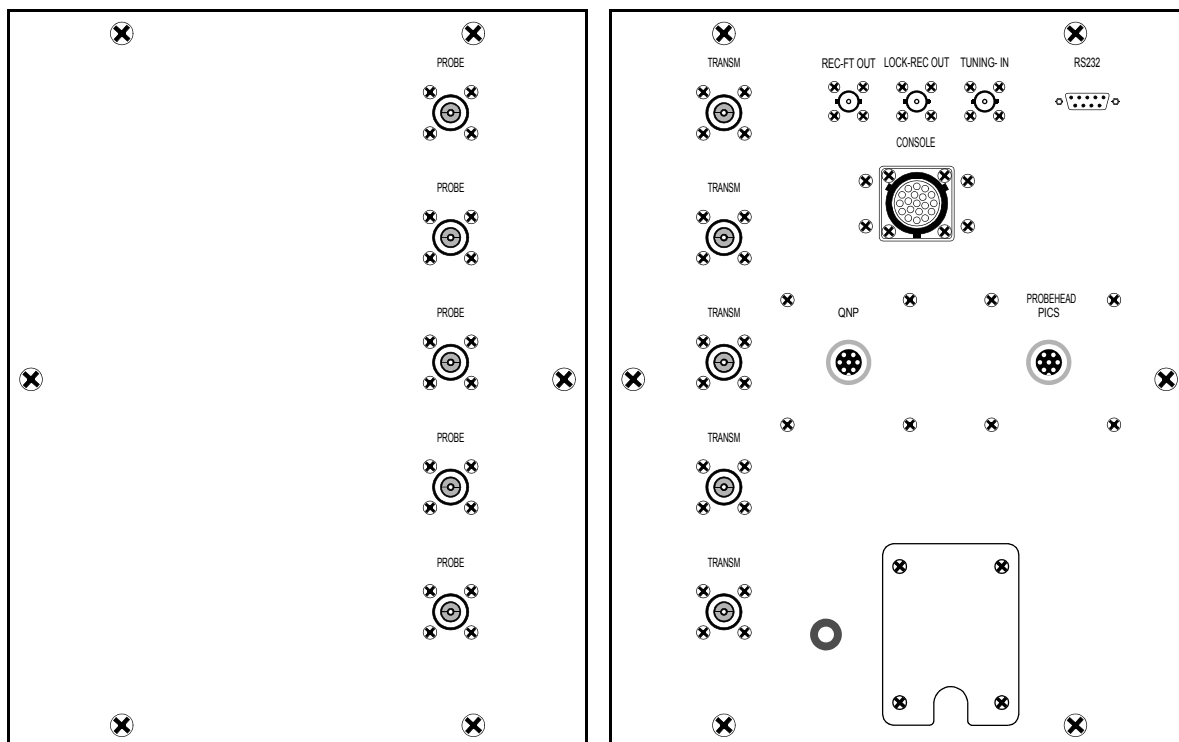
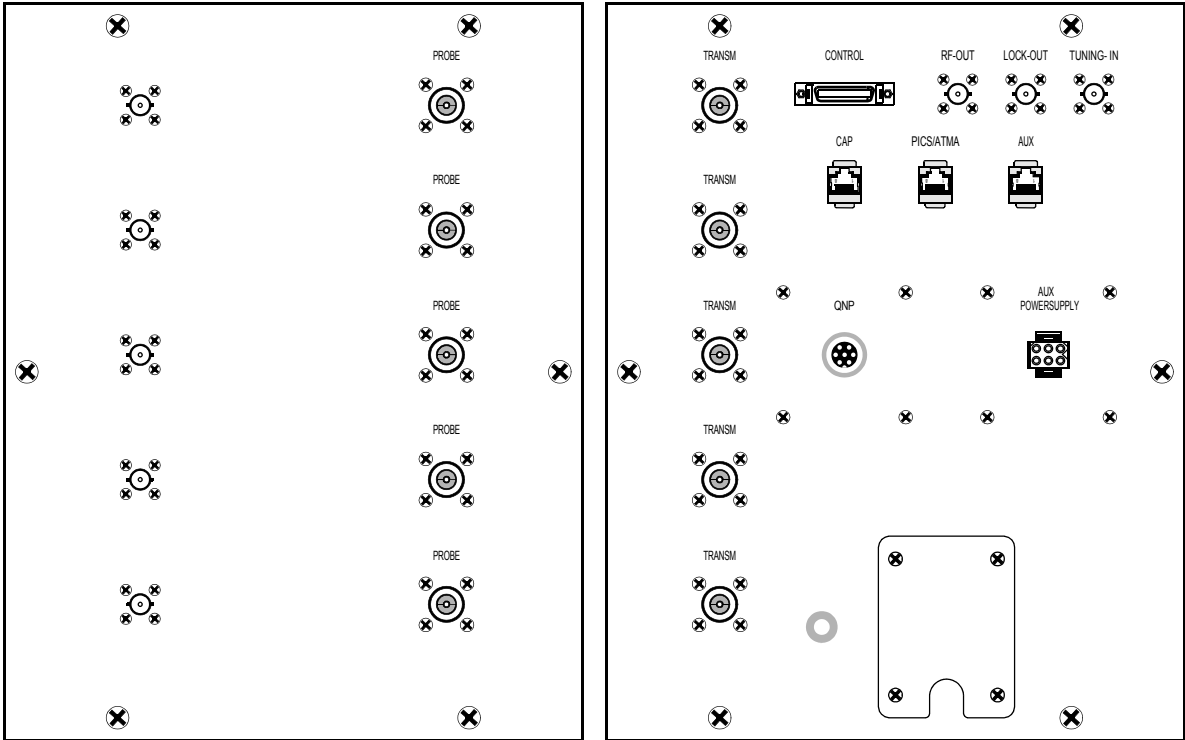


Figure 1.3. HPPR2 Faraday cage views



Figure 1.4. HPPR2 Inputs and outputs connectors



- Use only the coaxial cable **SHF 393** (P/N: Z2739) for the connection between the probe head and the Faraday Cage.
- Clean alongside with alcohol in order to preserve a good contact with the cover.



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*Warning! Avoid all connectors or adaptors type BNC because of leakages.*

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# Installation

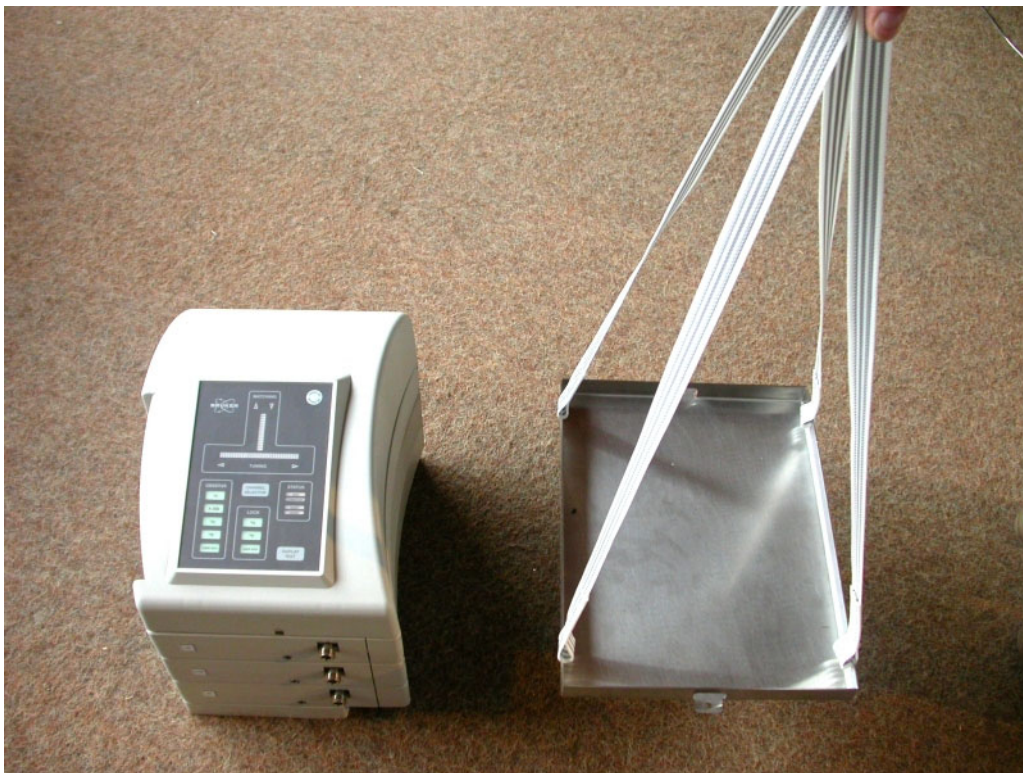
# 2

## Cages installation

## 2.1

This chapter describes, step by step, the procedure of installation of the HPPR1 or HPPR2 into the Faraday Cage and its connections.

Figure 2.1. HPPR and Plate



1. Take the HPPR support plate.

Figure 2.2. HPPR on plate



2. Pose the HPPR on the plate.

Figure 2.3. HPPR into Faraday cage



3. Introduce the HPPR in the Faraday cage.

Figure 2.4. Plate position



4. Pose the plate between the clinch.

Figure 2.5. HPPR in the cage



5. The HPPR positioned in the Faraday Cage.

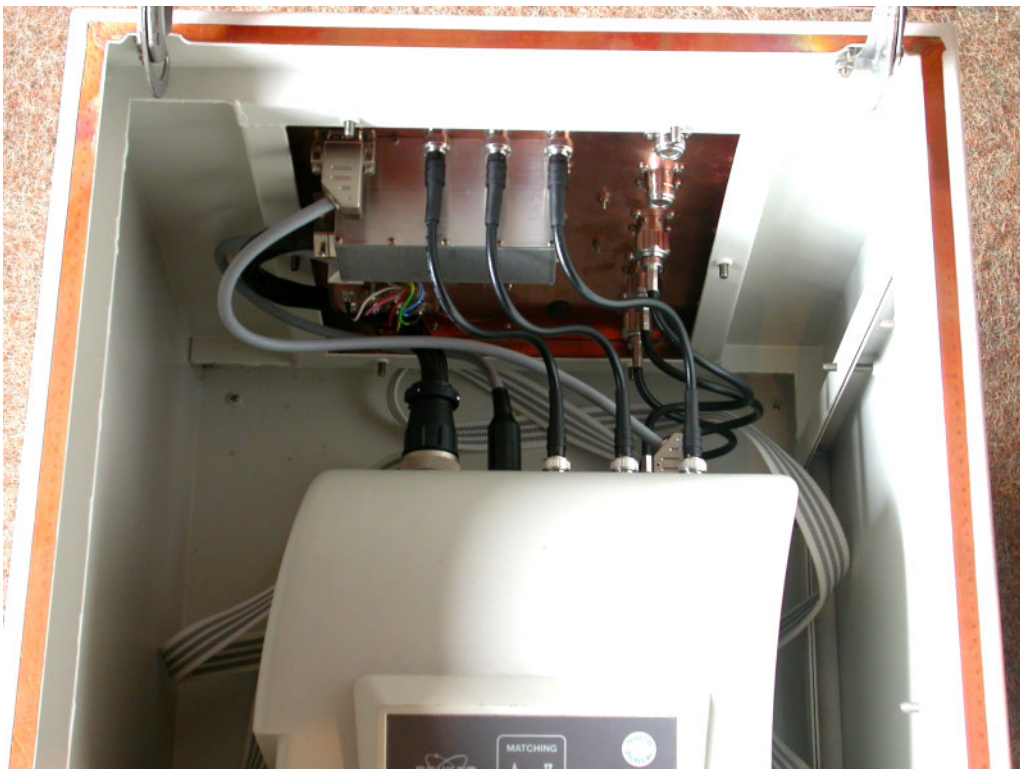
# Installation

Figure 2.6. Coaxial cables connections



6. To connect cable to cable the coaxial cables at the HPPR.

Figure 2.7. Other cables connections



7. Connect the other cables, like the RS232 cable, the probe head cable, etc...

Figure 2.8. Cage near magnet



8. The HPPR Faraday cage connected to the magnet is ready to function.



# Figures

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