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Integrated Technologies for Environmental Monitoring

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## ***Prs0025f Field Case Installation***

### **Operator's guide**

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## Introduction

The Prs0025 Field Case it's part of the FIBRA optic array, a versatile acquisition system specifically designed for infrasound arrays. The box is designed and build to make the installation of the infrasound sensor easy and reliable, and can be self-powered using a solar panel instead of the 15V DC supply.

## Installing the Field Case

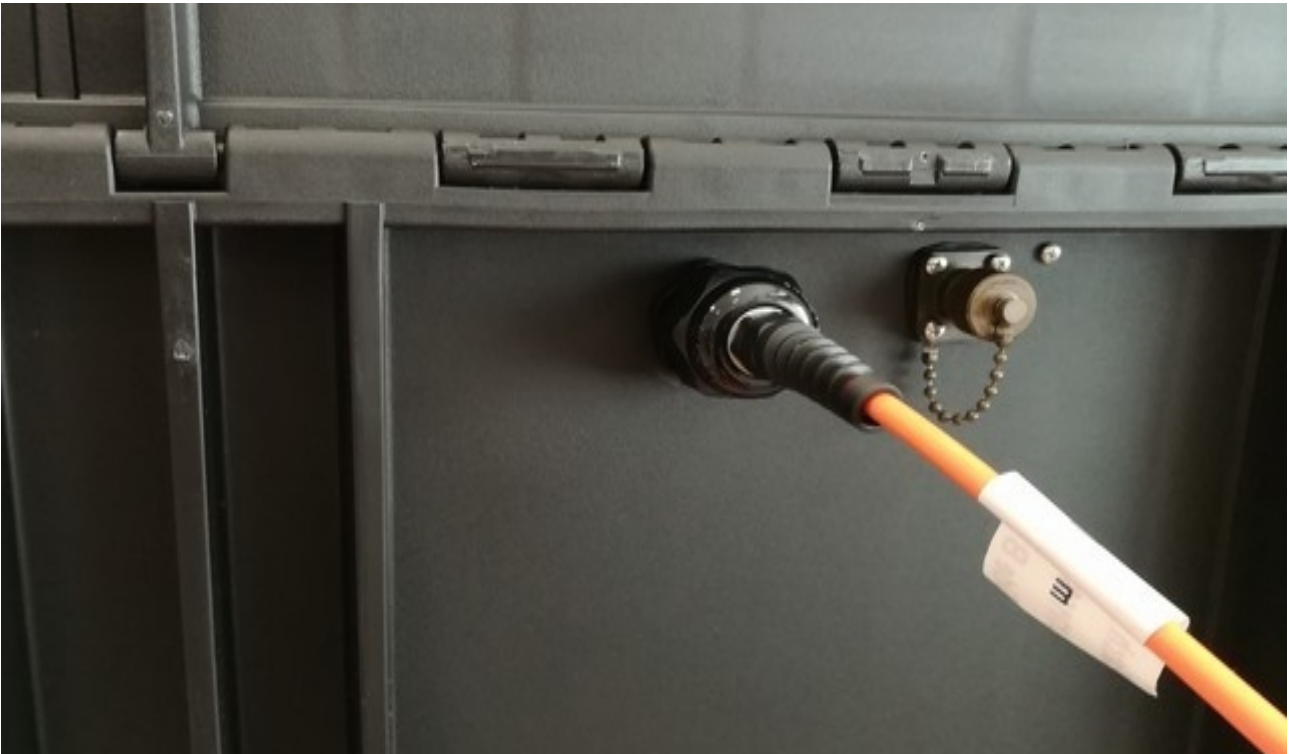
### 1) Connect the fiber optic cable

In the rear of the box U can find the fiber cable gland and the MIL power supply connector (Figure 1)



*Figure 1. External connectors on the rear of the box.*

Insert the fiber cable inside the box through the cable gland and tight the gland on the aluminium terminal (Figure 2).



*Figure 2. Fiber cable gland.*

Connect the fiber cable on the top of the Prs0025 sensor via the fiber optic adapters mounted on the panel connectors (Figure 3).



*Figure3. Fiber cable connection.*

***A clean fiber optic connection is critical for the correct system operation. Accordingly, keep the connector cups closed when ports are not in use.***

## 2) Wind noise reduction system

Connect the n°4 hose tubes on the sides of the box (Figure 4).



*Figure 4. Hose quick connector.*

## 3) Connect the battery

Connect the battery connection cable terminal RED to the positive pole of the battery and the BLACK cable terminal to the negative pole (Figure 5).



*Figure 5. Battery cables connection.*

#### 4) Power supply

In the rear of the box U can find the MIL connector for the power supply (Figure 1). It's possible connect a solar panel or a 15V DC (15-40 Volts accepted).

Panel Connector:

Cable Connector:

Pin	Description
A	Power +15 V
B	Power GND
C	

Fastening the power cable connector to the panel connector (Figure 6).



*Figure 6. Power supply connection.*

***This operator's guide it only covers the installation of the Prs0025 Field Case, in order to operate the FIBRA array it's necessary read the FIBRA Manual.***