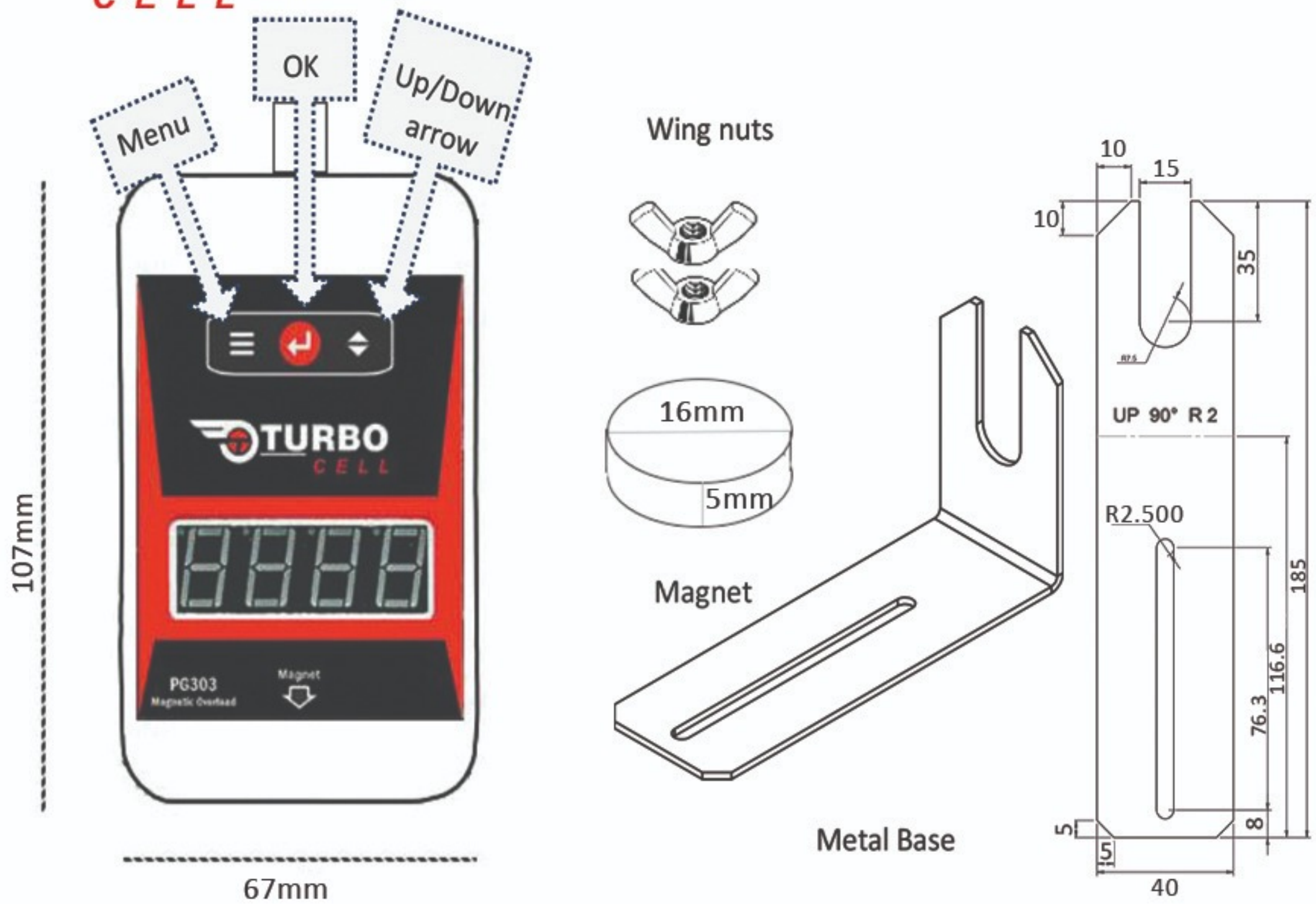


Elevator Load Control Sensor



Installation Manual

PG303



| Specifications – Hall's Efect Sensors | |
|---------------------------------------|---------------------|
| Nominal Weight | up to 8 passengers. |
| Detection Distance | 15–50mm |
| Total Error | ≥ 10 V |
| Operating Temperature | -20°C to +60°C |
| Body Material | ABS |
| Magnet Diameter | 16mm |

| Specifications - Controller | |
|-----------------------------|--------------------------|
| Protection Class | IP64 |
| Input Voltage | 18-30 VDC (24V standard) |
| Max Current Consumption | Less than 300 mA |
| Cable Length | 4m |

Electrical Connections

1. Connect the device's power supply as shown in the wiring diagram:
 - **Brown:** +24V
 - **Black:** 0V (Ground)
2. Connect the output wires:
 - **Blue:** Overload signal
 - **White:** Common (COM) for relay outputs.

Relay Setting Adjustment (NO to NC Mode)

1. Entering the Menu:

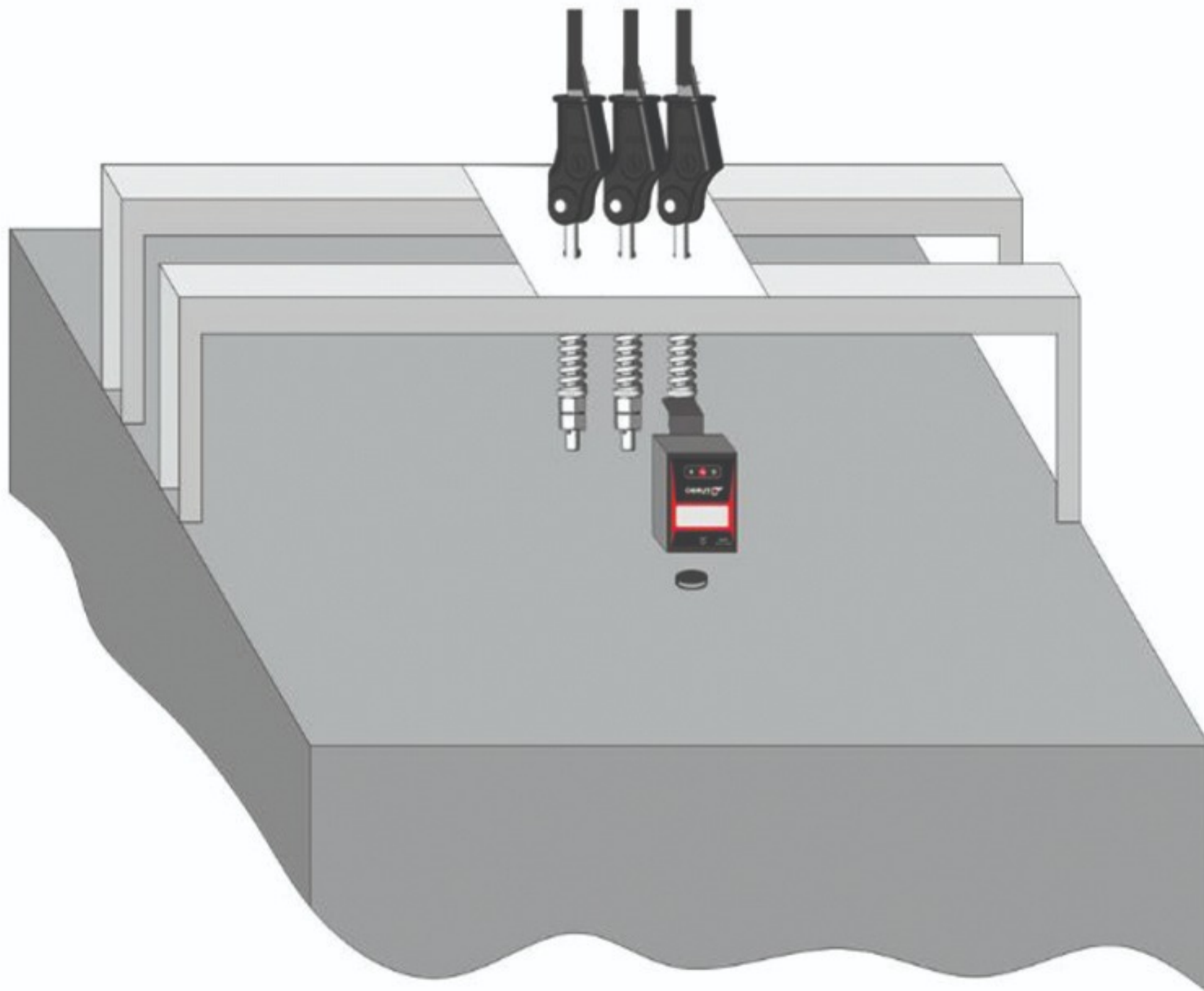
- Hold the **Menu** button for 3 seconds to enter the menu, and **STAT** will appear.

2. Setting the Relay Mode:

- Press the OK button to enter the submenu where **n0** (NO – Normally Open) will appear.
- Press the Up/Down Arrow button to change the setting to **nc** (Normally Closed).

3. Confirming the Setting:

- Press the OK button to confirm the change. The **STAT** menu will reappear.
- Hold the Menu button to exit the menu.



Installation on Cabin

1. Mounting the Device:

- Place the base of the device under the cabin frame, centered above the cabin. Attach the display unit to the base using wing nuts.
- Connect the device's wiring according to the provided wiring diagram.

2. Loading the Cabin:

- Fill the cabin with the full load (e.g., for a 6-person cabin, load 450 kg of weight).

3. **Positioning the Magnet:**

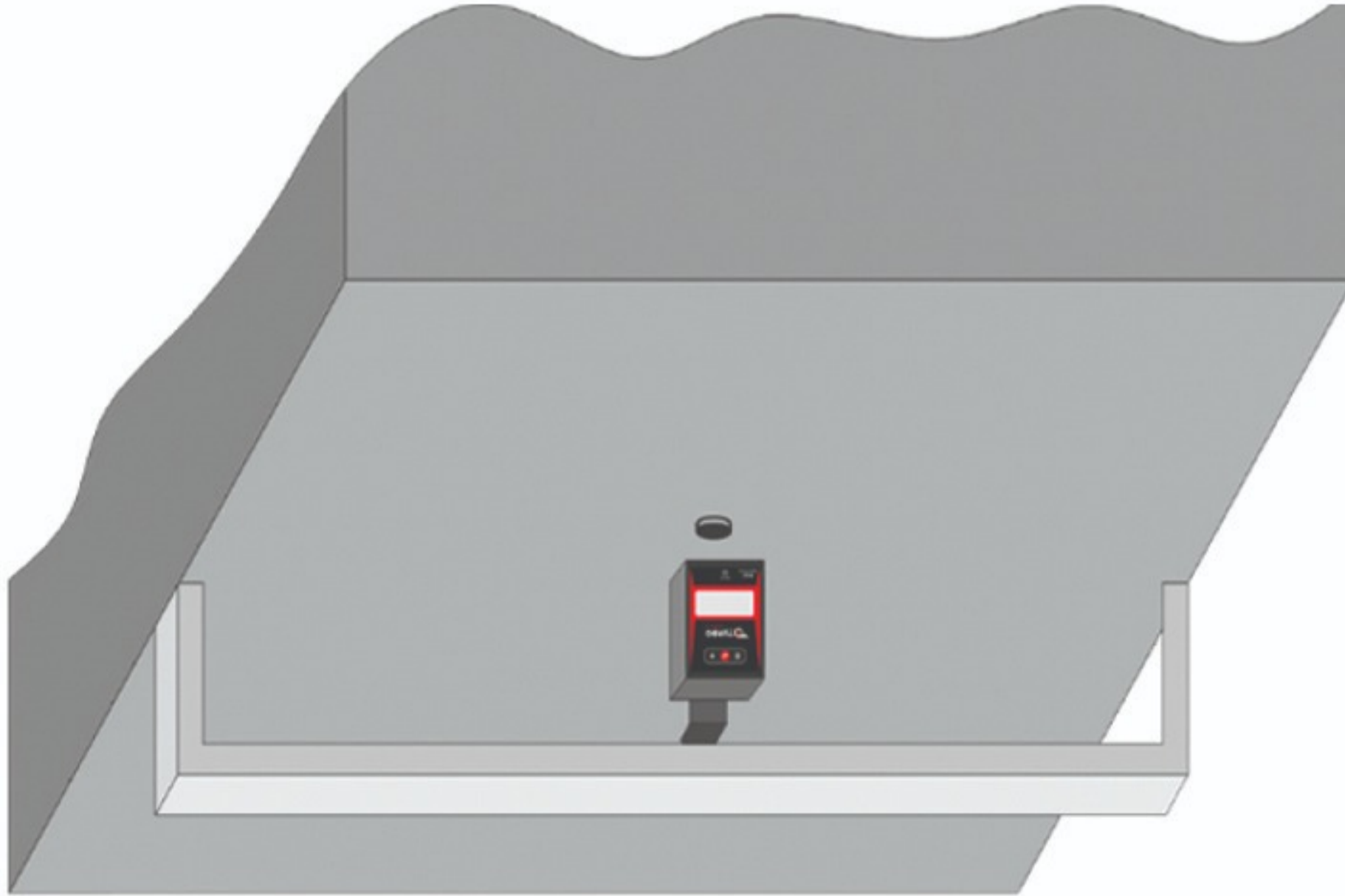
- Place the magnet beneath the device on the ceiling of the cabin.
- Ensure the distance between the device and the magnet is approximately 2-3 cm.
- The display value should be between 600 and 900, representing the magnetic flux, not the weight.
- If the value blinks, adjust the magnet distance.

4. **Device Calibration:**

- Press the **OK** button once to initiate calibration.
- If the display blinks or shows an error, adjust the magnet distance and retry.

5. **Overload Alarm Activation:**

- When the device is correctly installed and the load is added, the system will trigger the overload alarm. Once the load is removed, the alarm will deactivate.



Installation Under Cabin

1. Mounting the Device:

- Secure the base of the device beneath the cabin, centered on the underside of the cabin frame.
- Attach the display unit with wing nuts to the base and connect the wiring according to the provided diagram.

2. Changing Device Mode:

- After installation and wiring are complete, you need to change the device mode.
- To do this, press and hold the Menu button (three lines) until the STAT menu appears on the display.
- Then, use the Up/Down Arrow keys to navigate to the DIR menu.
- Press the OK button to enter the menu. Once in the menu, use the Up/Down Arrow keys to change the mode from - - to.- -
- Press OK to confirm the change.
- Finally, hold the Menu button for 3 seconds to save the setting.

3. Loading the Cabin:

- As with the on-cabin installation, fill the cabin with the required weight (e.g., 450 kg for a 6-person cabin).

4. Positioning the Magnet:

- Position the magnet above the device, beneath the cabin floor. Ensure the distance between the device and magnet is about 2-3 cm.
- Ensure the displayed value is between 600 and 900 (again, this indicates the magnetic flux, not the weight).
- If the value blinks, adjust the magnet position.

5. Device Calibration:

- Press the **Start** button to initiate calibration.
- If the display blinks or shows an error, adjust the magnet's position.

6. Overload Alarm Activation:

- After correctly installing the device and adding the load, the system will trigger the overload alarm. When the load is removed, the alarm will stop.



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