

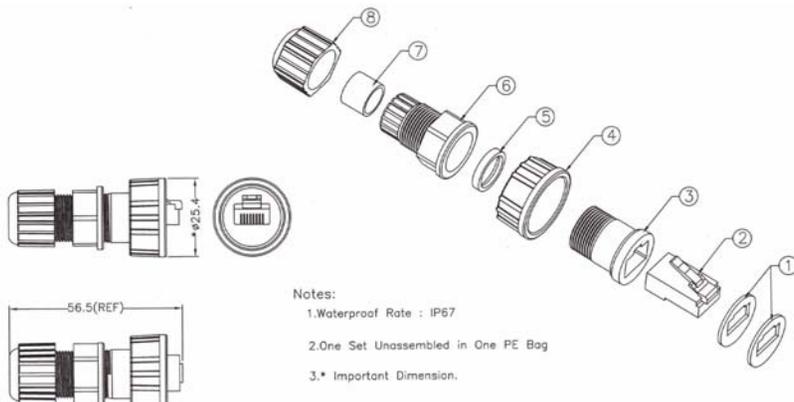
However, here is a simple test that can be performed. Perform this test at your own risk.

- 1) Clean your RJ-45 waterproof connector with anti-septic solution. Place your lips over the RJ-45 waterproof connector, forming a perfect seal.
- 2) Push air inside the box using your cheeks as an air pump, similar with blowing air in a trumpet (from your cheeks, not your lungs). Pump air several times. In case of an air leak, you should be able to hear a 'sizzle' coming out from the seal or feel the level of pressure decreasing.
- 3) If you are not sure of the seal quality, open the box and repeat step "d" and "e". This time, blow air into the box while securing the hex screws. After few turns you will notice that the pressure inside the box will increase. Please note that if some screws are over-tightened while others are not, the seal will not form.

3.0 Grounding the unit.

In order to provide ground to the WRAP box, you can use one of the 8 mounting screws to attach your ground wire lug.

4.0 RJ-45 field installable connector diagram.



WRAP-BOX

WIFI outdoor enclosure



Installation Guide

Version WRAP-BOX-1a
P/N WRAP-BOX-01

Introduction

Thank you for purchasing the WRAP-BOX WIFI outdoor enclosure.

Designed to withstand the toughest environments, the WRAP-BOX outdoor enclosure is a small, light, yet very solid wireless outdoor enclosure. The WRAP-BOX is rated NEMA-67 providing complete protection against ingress of dust (6) as well as protection against immersion in water (7).

1.0 WRAP-BOX versions

The WRAP-BOX comes in 3 configurations:

- 1 N-Type connector + 1 RJ-45 quick disconnect (model 1A1E)
- 2 N-Type connectors + 1 RJ-45 quick disconnect (model 2A1E)
- 4 N-Type connectors + 2 RJ-45 quick disconnect (model 4A2E)

2nd RJ-45 connector (available only on the 4A2E model) can be used as optional Ethernet or console port. Two WRAP boards can be stacked inside the enclosure for increased throughput and/or dual Ethernet operation.

2.0 Installing connectors, board

- a) Install the N-type pigtail assembly.
- b) Install the LTW Ethernet pigtail. **WARNING!** Do not over-tighten as you may risk damaging the plastic thread.
- c) Install and connect your board as needed, using hex standoffs.
- d) For extra protection, the Ethernet and N-type connectors can be further sealed using clear 100% silicone rubber sealant, usually available at your local hardware store. The seal needs to be applied inside of the box.

2.0 Gasket installation

- a) Carefully clean the seal channels on the die-cast enclosure.
- b) Make sure that the silicone rubber gasket is clean as well.
WARNING: Do not use oil or any type of solvents to clean the gasket area. Such actions might damage the integrity of the seal.
- c) Place the silicone rubber gasket into the base gasket channels. The gasket forms a perfect seal only if installed like in Fig 1.1. Please note that if gasket is installed upside down, the seal will not be perfect!!!!
- d) Gently place enclosure lid over gasket. Make sure the lid is aligned over base before securing it with screws.
- e) Using 4 hex screws, secure the top lid to the base. Follow and X pattern when tightening the screws. (bottom-left, top-right, bottom-right and top-left). When all screws are secure and can no longer be tightened, turn back $\frac{1}{2}$ turns on each screw.

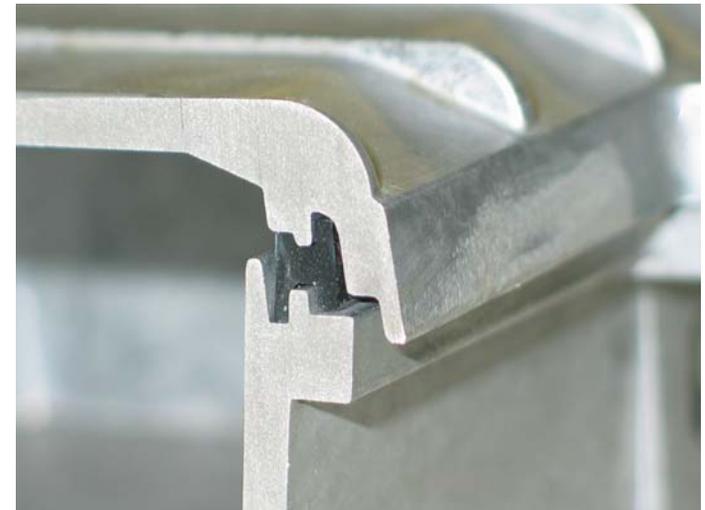


Fig 1.1 WRAP box section and gasket cross-section

2.0 Testing the seal.

If gasket is not properly installed, the seal might not be perfect. Positive and Negative pressure meters can be used to test the box seal.