



# Installation Instructions

LPW Range

SW3-670 V4

## 1. Introduction

The LPW is a range of wall mount antennas covering a range of frequencies. The antennas are suitable for mounting on metallic or non-metallic surfaces but mounting on metallic surfaces will result in changes to performance.

## 2. Select Mounting Location

The antenna should normally be placed in a vertical orientation, with the cable exit at the top or the bottom.

When fitting on a device enclosure/housing, ensure that there is adequate under panel clearance from internal components and that the coaxial cable can be routed to the equipment.

## 3. Mounting the Antenna and Routing the Cable

The antenna can be secured with the supplied adhesive pad and by using additional screw holes if required. When fitted with a miniature connector (SMA plug or smaller), it is possible to pass the cable through the rear of the antenna plate to conceal the cable exit.

If the cable will exit above the panel, select a suitable breakout hole and remove the plastic using pliers, ensuring a smooth edge is created. The cable must be routed directly away from the antenna and not run alongside it, which may determine which cable exit is utilised.



*It is recommended that the installation is not carried out if the temperature is less than 50°F (10°C) as the ideal temperature for the pad bonding is 70°F (21°C) to 100°F (37°C).*

The adhesive pad can be used as a drilling template if required, fixing holes are 5.5mm (0.21") and cable entry requires 10mm (0.4") clearance for an SMA plug. After drilling holes, check that any burrs or swarf are removed, to ensure a flat sealing surface for the adhesive pad. With the cable in the correct exit position, remove the backing from pad and apply firmly to the antenna base. Clean the mounting panel with alcohol swab and allow to dry. Remove backing tape, position correctly and press antenna firmly to the mounting panel.

## 4. Routing the Coaxial Cable

Route the coaxial cable to the device, ensuring that the cable is secured and protected from subsequent damage during access. If cable ties are used, they should not be overtightened, as this will distort the cable profile and could affect the antenna performance. Any excess cable should be laid "side by side" (not coiled) and can be secured by cable ties or tape. Respect a bend radius of 12.5mm (0.5") for the cable if possible.

## 5. Test and Commission

It is recommended to carry out a VSWR check on the comms cable, the VSWR should be as specified in the product datasheet.

## 6. Notices



### **DO NOT**

- *operate the transmitter when someone is within 20cm (8") of the antenna.*
- *operate the equipment in an explosive atmosphere.*
- *attempt to install the antennas without the proper safe equipment to access the install location.*
- *chew parts or put them in mouth, keep away from unsupervised children. Dispose of parts as WEEE waste do not send to landfill.*



### **European Waste Electronic Equipment Directive 2002/96/EC**

Waste electrical products should not be disposed of with household waste. All electronic products with the WEEE logo must be collected and sent to approved operators for safe disposal or recycling. Please recycle where facilities exist. Many electrical/electronic equipment retailers facilitate "Distributor Take-Back scheme" for household WEEE. Check with your Local Authority or electronic retailers for designated collection facilities where WEEE can be disposed of for free.



### **Please Recycle**

Printed versions of these instructions can be recycled. When you have finished with these instructions please recycle them.

**Waiver:** This document represents information compiled to the best of our present knowledge. It is not intended to be a representation or warranty of fitness of the products described for any particular purpose. This document details guidelines for general information purposes only. Always seek specialist advice when planning installations and ensure that antennas are always installed by a properly qualified installer in compliance with local laws and regulations.