

# SENSAPHONE®

## REMOTE MONITORING SOLUTIONS

SENSAPHONE EXTERNAL ANTENNA • FGD-0261  
Installation Instructions

The Sensaphone Sentinel now includes an external antenna for improved wireless performance. The antenna is supplied with a wall / mast mount bracket as standard but can also be mounted on metal panels or enclosures of sufficient size. Mount the antenna 6' or more from the Sentinel enclosure for best performance.



**Bracket Mounting** - Select a suitable mounting location for the antenna on the desired surface. The orientation of the antenna should be vertical with the cable exiting downwards. When selecting a mounting location care should be taken to ensure that at least 300mm (12") of separation is maintained between the antenna and nearby metal objects and surfaces.

When mounting the antenna to a metal housing, device enclosure or mast, care should be taken to ensure that the antenna housing is elevated above the metal surface to which it is mounted. Ensure that the selected location will enable the coaxial cable to be easily routed to the equipment. If mounting the antenna using screws it is important to check for adequate under panel clearance. It is important for RF performance that the antenna is only bracket mounted using the supplied bracket. Mounting the antenna utilizing a different bracket may adversely affect performance. The antenna can be mounted via the four 4.5mm fixing holes (suitable for M4 machine screws or 4mm self-tapping screws) or mast mounted using a jubilee or worm drive hose clip with a maximum width of 14mm (1/2"). If you will be drilling holes to mount the antenna, the bracket can be used as a drilling template.

When ready, mount the antenna securely to the bracket using the supplied nut and washer. It is not necessary to remove the backing from the supplied adhesive pad but the pad can be utilized if a more permanent fitment to the bracket is desired. If utilizing the adhesive pad, ensure that the top surface of the bracket is clean and dry, remove the backing from the adhesive pad and stick the antenna to the bracket applying firm pressure.

**Panel Mounting** - Select a suitable location. The antenna must be fitted to a conductive ground plane of adequate size. It will fit panels of between 1-12mm thick (0.04-0.47"). The recommended minimum diameter of the surface is 200mm (8"). Select a mounting location taking care to ensure that there is at least 300mm (12") of clearance from proximate metal objects. Ensure that there is adequate clearance under the mounting panel and measure to check for central positioning if necessary. Mask the panel area around the hole position to protect the surface / paintwork. Drill a pilot hole, then increase the hole size to 14mm (0.55"), ensuring that the drill / cutter bit does not hit any objects under the panel. Clean the area around the hole carefully removing all swarf. Remove any paint and primer from underneath the panel surface to ensure adequate electrical contact using washer and nut. Remove the nut and washer and then the adhesive pad backing from the underside of the antenna and feed the coaxial cable through the panel. Position the antenna over the mounting hole and stick it to the panel applying firm pressure. Assemble the nut and washer from under the panel and tighten fully.

**Routing The Coaxial Cable** - Route the coaxial cable to the Sentinel, taking care to avoid running adjacent to existing wiring or fouling any moving controls or components.