
Tech Talk

General installation notes for ELPRO Technologies wireless systems**Bench Test**

Before installing a new system, it is highly recommended to bench test the complete system. Configuration problems are easier to recognize when the system units are adjacent. It is ok to do so without antennas connected to the module.

Antennas & Grounding

Refer to installation guide drawing and manual for proper antenna installation and grounding requirements. Mount antenna away from wall and other antennas. Provide good earth ground, and add surge arrestor if antenna is exposed in the open.

Waterproof those coax connections!

Water ingress into coaxial cables is the biggest cause of communication problems. We recommend any exposed coax connection be taped in three layers with our Waterproofing Kit (Clipper Controls part number ELP-KIT).

1. Base layer of Vinyl tape (3M Super 33+) to allow the joint to be easily inspected when trouble shooting
2. Vulcanizing tape (3M 23)for water seal
3. External layer of Vinyl tape (3M Super 33+) to protect vulcanizing tape

Measure Signal Strength

After installation, record the radio signal strength and background noise for each radio link. If there are future communication problems, you can compare the present data with the as-commissioned values. This is an effective way of finding problems with antennas, cables and also changes in the radio path. Refer to the manual or Clipper Controls document "ELPRO Radio Signal Strength"

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