

WIFI Antenna & Antenna Cable Installation Guidelines

Installation Guidelines

Application Note: The guidelines are for the installation of the Antenna and Antenna cable for PIC6.1 controls that contain native dual band WIFI. It provides guidelines for the routing of the Coax Cable of the magnetic mount Antenna and the RF ports on the PIC6.1 control.

NOTE: Read the entire instruction manual before starting the installation.

WARNING

ELECTRICAL SHOCK HAZARD

Failure to follow this warning could result in personal injury or death.

Before installing or servicing unit, always turn off all power to unit. There may be more than 1 disconnect switch. Turn off accessory heater power, if applicable.

WARNING

Cut Hazard

Failure to follow this warning could result in personal injury or death.

Sheet metal parts may have sharp edges or burrs. Use care and wear appropriate protective clothing and gloves when handling parts.

INSTALLATION

Step 1 — Shut off power to the unit at the main circuit breaker. More than one disconnect may power the equipment. Be certain all power is removed prior to proceeding.

Step 2 — Locate a spot on the top of the control box to place the two included WIFI antennas. Ideally, on the horizontal flat top surface. Clean the surface and place the antenna mounts in the identified location. The separation of the antennas should be approximately 50 cm or 19 inches)

Step 3 — Route the antenna cables through one of the grommet holes in the back of the control box. The opening in the grommet should be sized to make a tight seal around the coax cable. When routing the cable leave a little slack in the cable to allow the cable to drip down below the hole in the control box and come back up and into the hole. This forms a drip loop and will allow moisture to drip off of the antenna cable and not enter into the control box.

Step 4 — Unlock the control box panel cover. Open the control box panel cover and route the antenna cable across the top of the box towards the hinge side of the cover. Use wire ties to secure the cable in 2 or 3 locations across the top. Place wire ties on each side of the hinge. Allow enough slack that door can open all the way without causing strain on the antenna cable.

Step 5 — Continue routing the antenna cable across the top of the control box panel cover and secure with 3 wire ties. Loop the antenna cable down and attach to the RF SMA connector on the PIC6.1 control. Torque the SMA connector to 3(MIN)-4(MAX) in-lb / 0.34(NIN)-0.45(MAX) N-m.

Step 6 — Close the control box panel cover and lock.

Step 7 — Turn power on

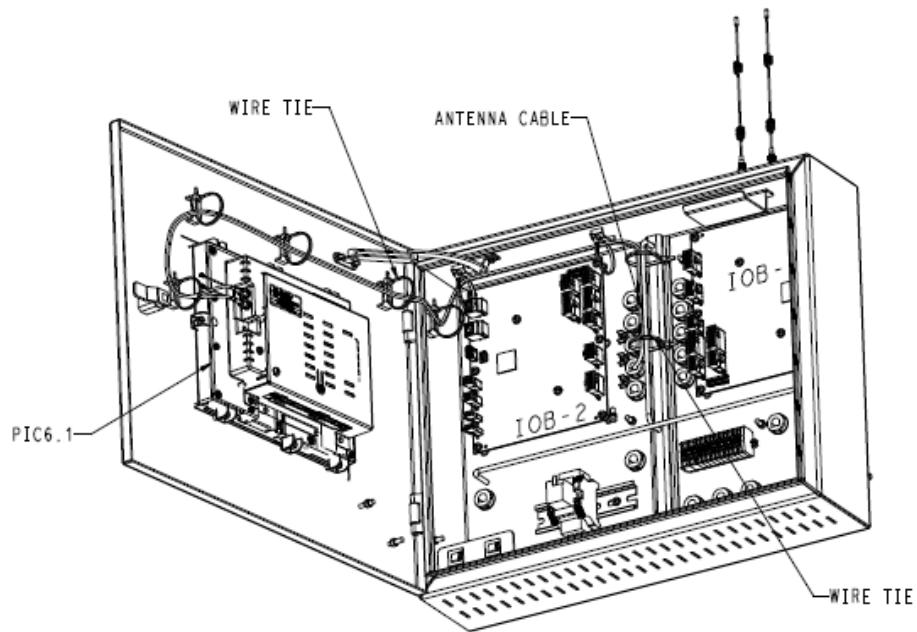


Figure 1: WiFi Magnetic Antennas Installed on Control Box

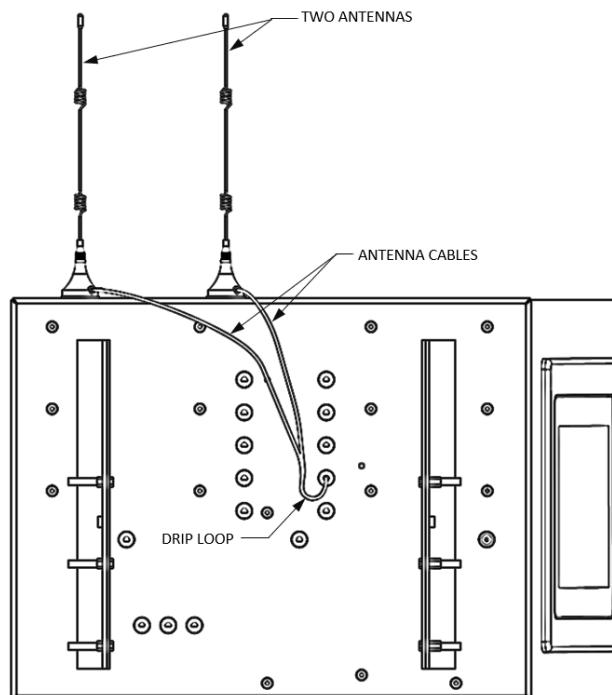


Figure 2: Routing of RF Antenna Cable through Control Box