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<u>Package contents:</u> Scout Monitoring unit with cable harness and connectors (communication terminal w/ brackets & cable on satellite units); 100A interruption relay; Solid state relay; AC detect probe; 120/240VAC - 12/24VAC stepdown isolation transformer w/ plastic safety guards; set of 2 mounting brackets w/fasteners; 1 1/4" threaded connector for mounting directly to the rectifier enclosure. *Please inspect package contents and immediately notify Elecsys Technical Support at (913)825-6366 or email support@watchdogcp.com if there are any discrepancies.

Recommended: Watchdog Installation Supplies Kit -- WD-48-0002-00 (includes 1" flexible conduit, cable to run from rectifier to Scout unit, connectors, mounting hardware, and conduit fittings); Depending on the type of installation, the following may be necessary: Lag bolts & washers for mounting unit; conduit (approx. 4' per site); 1" conduit connectors; #4 welding cable (approx.. 5' per site – depending on max amps of rectifier could use 16ga to #4 wire for connecting the relay); 18" of 16ga. 2 wire cable (preferably with White and Black insulated wires) to connect the incoming commercial power to the input of the Isolation transformer; a split bolt splice and electrical tape can be used for larger gauge wires, the yellow connectors will usually work for smaller gauge wires on the relay circuit; 8 x ½" hex head self-tapping screws to mount the relay and transformer inside the rectifier; assortment of red, blue, and yellow butt splice conns, ring conns, disconnects conns, and fork conns; plastic zip-ties.

Important Installation Notes: Do not connect directly to high voltage AC. The Scout is designed for low voltage (10-25VAC or 10-35VDC) input power. Use of the step-down transformer supplied with the unit is recommended for AC operation. Prior to beginning installation of this product, locate the serial number of the device on the label attached to the back of the enclosure and record it for use in setting up the website.



Step 1: Attach the mounting brackets to the Scout unit using the screws, washers, & lock nuts provided. For round pole mount, attach brackets with cleats positioned away from the front of the unit. For square post or wall mounting, attach brackets with cleats positioned toward the front of the unit.

Step 2: Mount the Scout unit to the pole, post or wall with lag bolts.



Step 3: Drill a 1-3/8" hole in the bottom of the rectifier using a 1-3/8" stepped bit. Install a 1" conduit connector in the hole. Cut a piece of 1" flexible conduit that will reach from the Scout unit to the bottom of the rectifier.



Step 4: Plug in cable assemblies

Step 5: Insert the cables and wires from the Scout connections into the 1" conduit connector on the bottom of the Scout unit, run them through the piece of flexible conduit that was prepared, and attach the conduit to the bottom of the Scout unit.

Step 6: Route the cables and wires from the Scout unit through the 1" conduit connector

on the bottom of the rectifier and attach the conduit to the connector.

Step 7: Attach the AC Detect Probe to the live leg of the incoming commercial power with 2 small cable ties. For 240V incoming power, attach the probe to only 1 of the 2 live wires. Locate the Orange and Blue wires in the signal cable from the Scout unit and butt splice them to the wires from the AC Detect Probe (Orange to Red and Blue to Black).



Step 8: Locate the Red, Black, White, and Green wires from the signal cable. Connect the Red wire to the Rectifier positive output and the Black wire to the Rectifier negative output using the ring or fork connectors provided. Connect the White wire to the Shunt positive output and the Green wire to the Shunt negative output with the fork connectors provided.

Step 9: Isolate all unused wires by cutting them to different lengths and wrapping them with electrical tape to avoid shorts and/or grounds that could adversely impact proper Scout unit function.



Step 10: Locate the large Red and Black wires coming from the relays in the Scout unit. To interrupt the rectifier from the negative output, remove the cable from the negative lug of the rectifier and connect the

Red wire from the relays in the Scout unit to the negative output lug. With a split bolt or other appropriate splice connector, connect the cable from the pipe to the Black wire from the relays in the Scout unit. If interrupting from the positive side of the rectifier output, connect the red wire from the relays in the Scout unit to the cable from the Anode bed and the Black wire from the relays in the Scout unit to the positive lug of the rectifier output.

Step 11: Locate the power cable from the Scout unit. Connect the cable to a 110V source in the rectifier using the appropriate ring or fork connectors.



Step 12: Unplug the power plug from the Scout unit, turn on the rectifier power, and using a multimeter set for VAC, measure the voltage on the screws of the Scout power plug. The reading should be 12 VAC to 14 VAC. Plug in the power plug and turn the Scout unit switch on. Allow 5-10 minutes for the Scout unit to initialize and lock the GPS signal. Call Elecsys Customer Support, 913-825-6366, for help configuring the new unit on the Elecsys Website.