Elecsys Watchdog Scout / SCT-N3-20
Quick-Start Guide

Ser. #_____

Package contents: Scout Monitoring unit with cable harness and connectors (communication terminal w/ brackets & cable on satellite units); 100A interruption relay; AC detect probe; 120/240VAC - 12/24VAC step-down 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.

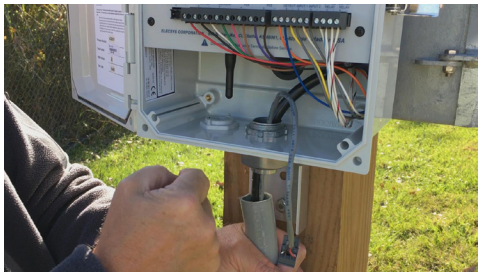
Recommended: Watchdog Installation Supplies Kit -- WD-48-0002-00 (includes 1" flexible conduit, cable to run from rectifier to Scout unit, connectors, mounting hardware, and conduit fittings); Depending on the type of installation, the following may be necessary: Lag bolts & washers for mounting unit; 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 inside of the door of the Scout and record it for use in setting up the website with customer service.

Step 1: Mount the unit to the Pole or Post with 4" to 5" lag bolts, for walls use screws or bolts appropriate for the installation. For Pole mounting of unit install brackets with cleats away from the door of the unit. For square Post or wall mounting install brackets with cleats toward the door of the unit. **Optional: mount Scout directly onto rectifier and run wiring through the back of the Scout (coupling included).*

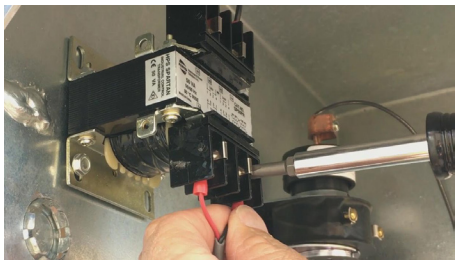
Step 2: Measure, cut to length, and install a piece of 1" flexible conduit to fit between the Scout unit and the rectifier. A hole for a 1" conduit connector can be drilled in the bottom of the rectifier using a 1-3/8" step bit.

Step 3: Plug cable assemblies into Scout. Leave power cable unplugged until input voltage is confirmed at the end of installation.



Step 4: Route the cables from inside the Scout unit through the conduit into the rectifier.

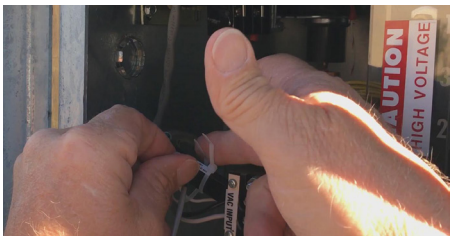
Step 5: Install jumpers onto transformer depending on the input power. Mount the step down transformer and the mercury relay inside the rectifier.



Step 6: Wire the input of the Transformer with a 120V or 240V supply from the commercial power input for the rectifier. Then connect the power wires from the Scout unit to the Transformer output.

Step 7: Remove the Pipe wire from the negative output of the rectifier and connect it into the bottom of the mercury switch. Cut a length of same gauge wire to be connected from the top of the mercury switch to the negative output of the rectifier.

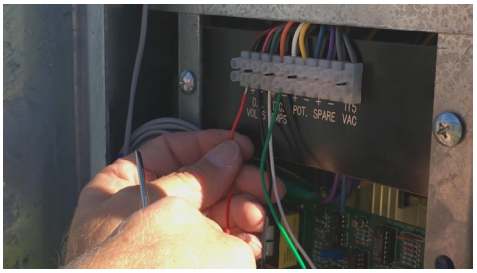
Step 8: Locate the larger cable from the Scout unit and measure the distance from the conduit to the body of the mercury switch. Allow a small loop of wire and cut the cable to match the needed length then crimp on the fork terminals and secure the wires to the body connectors of the mercury switch (white/Red stripe & white/black stripe).



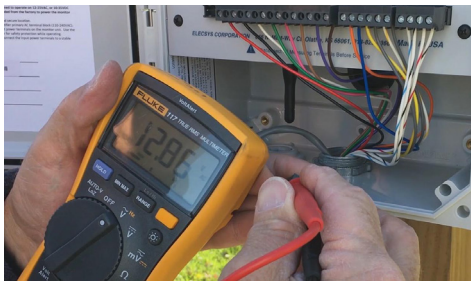
Step 9: Zip-tie AC detect probe to one leg of incoming AC to the rectifier.

Step 10: Using fork, ring, & butt splice connectors connect the Black & Red wires to the rectifier Voltage outputs and connect the Green and White wires to the shunt. The Orange and Blue wires will be used for the AC Detect Probe (Orange butts to Red & Blue butts to Black).

NOTE: Be sure to isolate and insulate unused wires with electrical tape to avoid shorts and grounds



Step 11: Connect wires according to the wiring diagram on the inside door of the Scout.

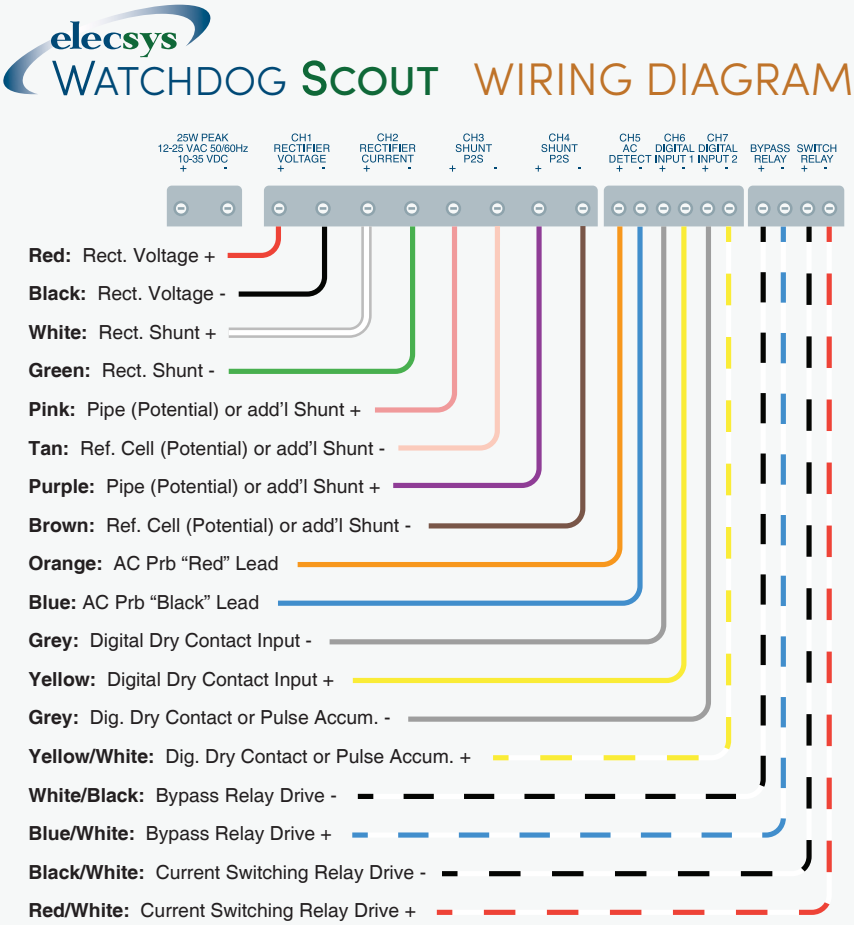


Step 12: Turn the rectifier on and check the voltage at the Scout power plug by touching the Meter leads to the connector screws on the plug. The voltage should be 12VAC to 14VAC.

Step 13: After voltage is confirmed plug in the power plug and turn on the Scout unit.

Go to www.elecsyscorp.com/Installation for videos and manuals.

Call Elecsys Customer Support for installation help - (913) 825-6366



Elecsys Scout Activation

1. When the unit is mounted and connected, turn the power switch "On". The first time the unit powers up it will go through a communication check, request a configuration from the Pipeline Watchdog website, and commence normal operation (up to 2 minutes for cellular, or 10 minutes for satellite).

2. To send readings from the unit to the web, press and hold "Enter" for 3 seconds. If the configuration has not been changed, the display will read "Release to send readings to web."

** The Scout operational settings (report frequency, alarm settings, channel configurations, interrupter parameters, etc.) can be reprogrammed from the website (select "Unit Configuration" then "Reprogram Unit"), or directly at the unit (refer to "Configuration Steps" in the Scout User Manual, or contact Elecsys Customer Service for assistance.*