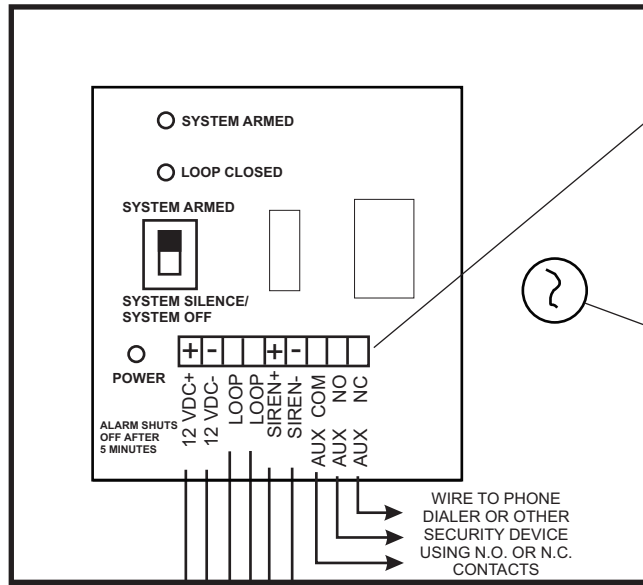


iO-WW HARDWIRED WARNING WATCHDOG™ **WIRING DIAGRAM USING iO-WWR240 VOLTAGE MONITORING RELAY iO-WWPC** **PRESSURE CONTROL AND OPTIONAL iO-WWTS TAMPER SWITCH**

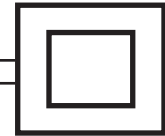


CAUTION!
DISCONNECT POWER
TO CONDENSING UNIT
BEFORE BEGINNING
INSTALLATION

iO-WWLP LOGIC PANEL



iO-WWS SIREN
 12 VOLTS DC
 700 mA
 HIGH OUTPUT
 118 dB
 WEATHER RESISTANT



MOUNT SIREN ON OUTSIDE WALL AS HIGH AS POSSIBLE IN A LOCATION WHERE WIRES CAN BE PULLED THROUGH THE WALL DIRECTLY BEHIND SIREN

WIRE WITH WHITE STRIPES IS POWER SUPPLY PLUS (+)

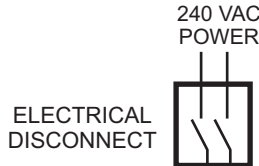
iO-WWPS PLUG-IN POWER SUPPLY
 12 VOLTS DC
 1250 mA
 WITH 6' LEADS



ALL WIRING IS STANDARD 18 GAUGE THERMOSTAT WIRE

WIRE IN SERIES WITH UP TO 3 ADDITIONAL MONITORING RELAYS AND TAMPER SWITCHES

IF WIRES ARE CUT, ALARM WILL SOUND

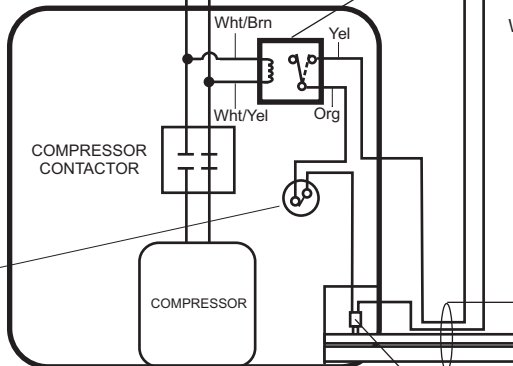


iO-WWR240 240 VOLT VOLTAGE MONITORING RELAY

USE N.O. CONTACTS
 Yellow Common
 - Orange Normally Open
 (FOR 3 PHASE, CONNECT TO ANY TWO PHASES)
 White/Brown - White/Yellow

RELAY CONTACTS OPEN IF DISCONNECT IS PULLED

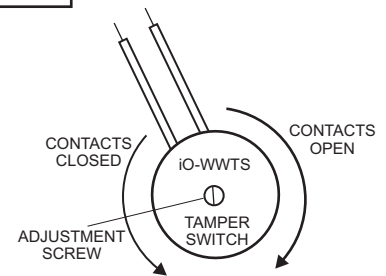
OUTDOOR CONDENSING UNIT



RELAY CONTACTS OPEN IF LOSS OF PRESSURE OCCURS

iO-WWPC PRESSURE CONTROL
 MOUNT ON LIQUID LINE
SCHRADER VALVE SERVICE PORT

MOUNT TAMPER SWITCH (OPTIONAL)
 ON VERTICAL SURFACE
 INSIDE CONDENSING UNIT
 CABINET WITH LEADS
 AT 11 O'CLOCK



IT IS VERY IMPORTANT THAT THE CONTROL WIRING FROM THE VOLTAGE MONITORING RELAY AND PRESSURE CONTROL BE SECURED TO THE LINE SET ON A SPLIT SYSTEM USING SEVERAL TIE STRAPS. THE CONTROL WIRING CAN BE SECURED IN THE SAME MANNER TO A SHORT SECTION OF COPPER LINE INSIDE A PACKAGED ROOFTOP UNIT.

iO-WW HARDWIRED WARNING WATCHDOG™

INSTALLATION INSTRUCTIONS

CAUTION:

DISCONNECT POWER TO CONDENSING UNIT BEFORE BEGINNING INSTALLATION!

OVERVIEW:

The iO-WW hardwired Warning Watchdog™ is an alarm system designed to provide enhanced security against outdoor condensing unit theft and vandalism. The hardwired system consists of an indoor logic panel with 12 volt DC power supply, outdoor siren, condensing unit power monitoring relay, tamper switch and a pressure control switch. Wiring of all components is done with standard 18-2 gauge thermostat wire.

WIRING:

iO-WWLP LOGIC PANEL:

Mount the iO-WWLP Logic Panel in a secure but accessible indoor area within 4' of a 120 volt outlet. The iO-WWLP comes with an iO-WWPS 12 volt DC power supply with 6' leads. Connect the power supply to the logic panel making sure positive (+) and negative (-) are wired to the proper 12 VDC+ and 12VDC- terminals. **Do not apply power to logic panel until all wiring is completed.**

iO-WWS SIREN:

Mount the iO-WWS siren on an outside wall as high as possible in a location where wires can be pulled through the wall directly behind the siren and to the logic module. Use 18-2 thermostat wire to connect the siren to the logic panel making sure that the siren positive RED (+) and negative BLACK (-) are wired to the Siren + and Siren - terminals. Do not exceed 300 feet in wire length.

Make sure that the disconnect is pulled and that no voltage is present at the condensing unit.

Pull 18-2 thermostat wire from the logic panel to the outside of the building in a manner that minimizes the amount of exposed wire run to the condensing unit.

Mount the iO-WWR240 Volt Monitoring Relay in the service compartment of the condensing unit. Connect the relay coil leads to the line side of the compressor contactor. (Refer to wiring diagram on other side)

Mount the iO-WWTS Tamper Switch (Optional) on a vertical surface inside the condensing unit cabinet with the leads at 11 o'clock. Place a continuity tester across the leads. If there is no tone, loosen the adjustment screw and rotate the outer case counter-clockwise until the contacts close (tone) then re-tighten the adjustment screw. Wire the tamper switch in series with the voltage monitoring relay.

Mount the iO-WWPC pressure control on the liquid Schrader valve service port and wire in series with the tamper switch. Connect the other lead to LOOP terminals at the logic panel. Use several tie straps to secure the wire to the a section of copper line. (Refer to wiring diagram on other side)

TEST, CHECK AND ARMING THE SYSTEM

After all wiring is completed, apply voltage to the condensing unit and 12 volt power to the logic panel. The POWER LED should come ON. If not, check power supply polarity. The system switch located on the logic panel control board is factory set to ALARM SILENCE / SYSTEM OFF. Check to see that the green LOOP CLOSED LED is ON. This confirms that all monitoring controls in the LOOP circuit are closed. Place the system switch in the SYSTEM ARMED position. The red SYSTEM ARMED LED will come ON. To test the alarm, wait 10 seconds after arming the system and remove one of the wires from the LOOP terminal at the logic panel. The alarm siren should sound in 2 seconds and will sound for a duration of 5 minutes. If the alarm siren does not sound, check the siren wire polarity. Place the system switch in the ALARM SILENCE / SYSTEM OFF position and reattach the LOOP wire confirming that the green LOOP CLOSED LED is ON. Rearm the system by placing the system switch in the SYSTEM ARMED position and confirm that the red SYSTEM ARMED LED is ON. Close and lock the logic panel. In the event of a power failure, the system will automatically rearm when power is restored without false alarming.

AUXILIARY ALARM RELAY

The auxiliary alarm relay has both normally open and normally closed dry contacts rated at 5 Amps. The relay coil is energized when the LOOP circuit opens (Alarm Condition) and remains energized for a duration of 5 minutes.

In the unlikely event of condensing unit theft, iO HVAC Controls shall not be held liable.