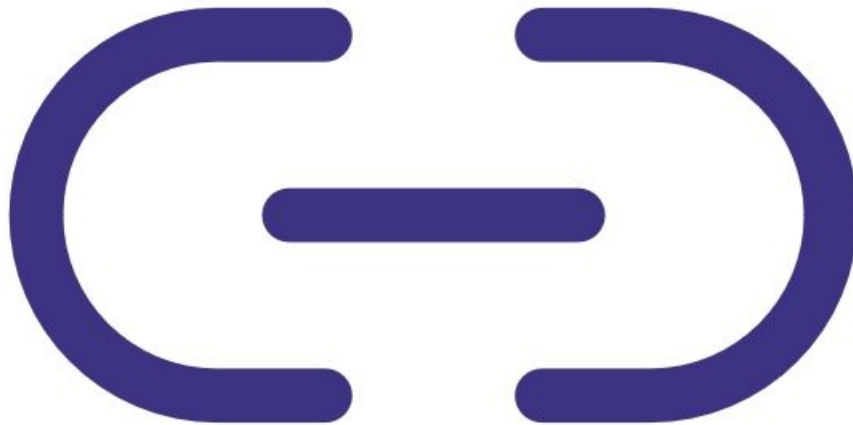




Wire to external alarm

Written By: StJohn Vuetilovoni

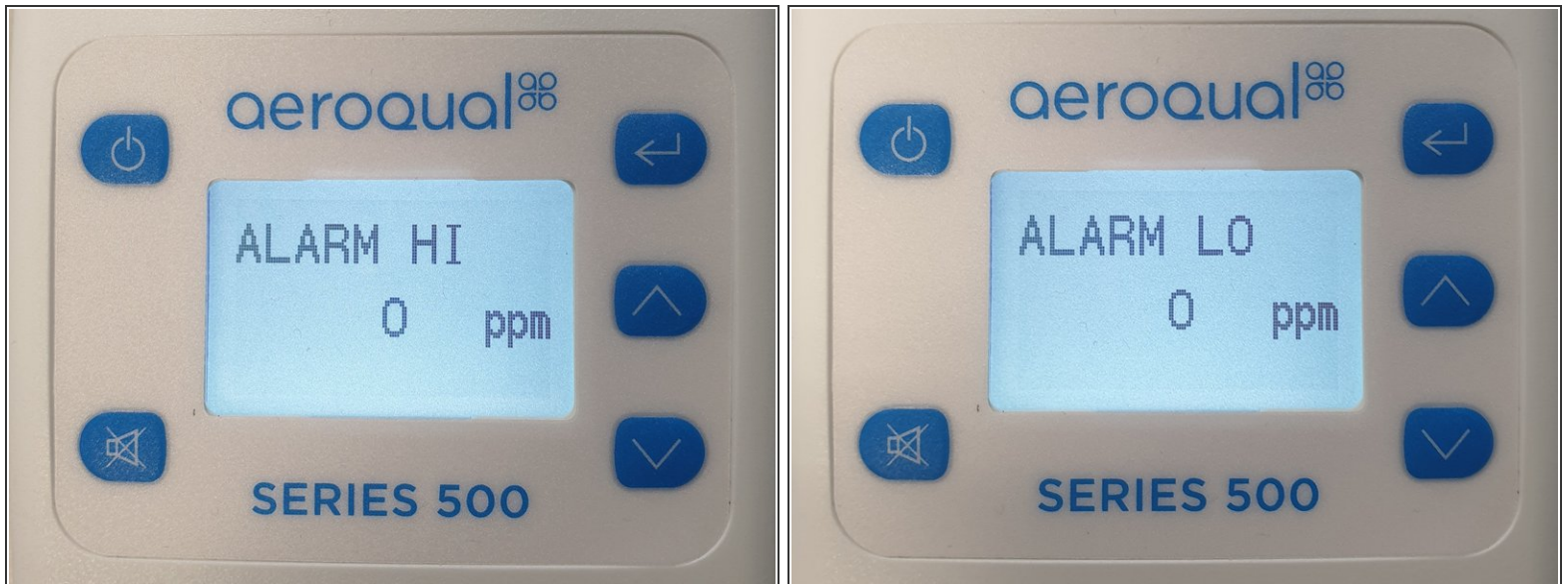


INTRODUCTION

Wire the high alarm and low alarm pins to supply simple on/off switching to operate equipment which requires only an on, or off signal, such as an alarm.

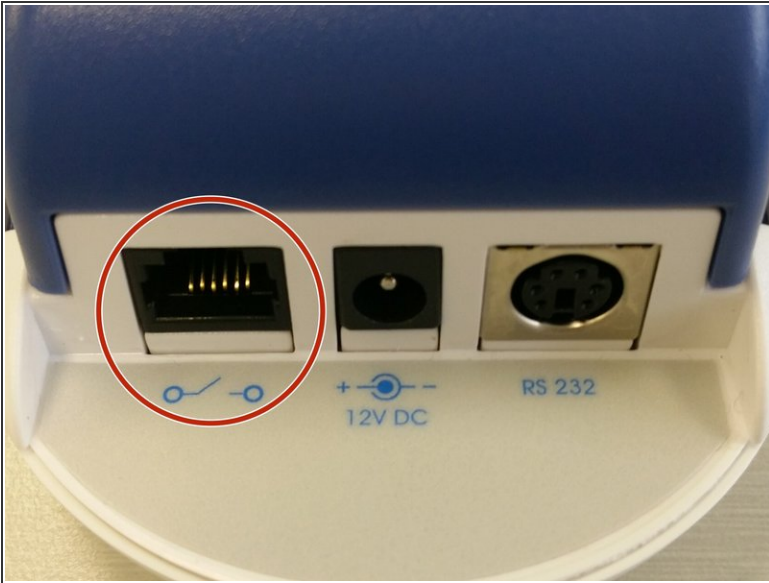
Note: All transistor outputs are open collector current sink. The maximum rating of these transistor outputs is 12VDC at 150mA. If you connect a relay or any other inductive load to the transistor outputs, a back EMF suppression diode must be fitted across the load.

Step 1 — Configure set points



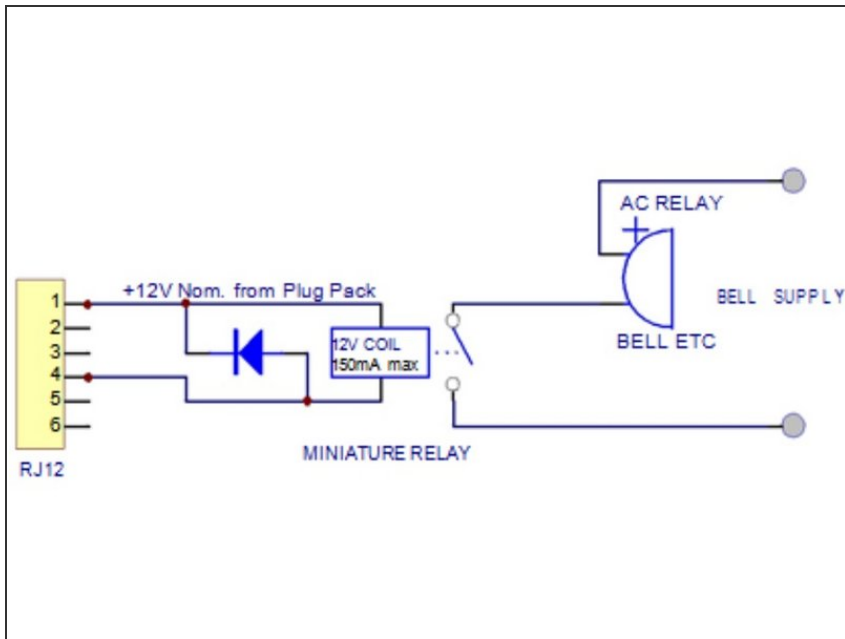
- [Configure the alarm set points on your handheld monitor.](#)

Step 2 — Identify pins



- The external connector requires an RJ12 connector. The pin designations for the external output connector are numbered 1 to 6.
 - 1 = 12VDC (closest to the 12V DC power jack)
 - 2 = Analogue output 0-5V
 - 3 = Control
 - 4 = High alarm
 - 5 = Low alarm
 - 6 = Ground (furthest from the 12V DC power jack)
- The RJ12 connector offers two possibilities for wiring, either a switch to GND, or a switch to 12V output.

Step 3 — Switch to 12V output



- To switch to 12V output, wire to pins:
 - 4 (High alarm) or 5 (Low alarm)
 - 1 (12VDC).
- If the 12V output is used, the power for the relay coil is supplied by the Aeroqual AC/DC adapter. In this case, make sure the relay coil doesn't draw more than 150 mA and that a protection diode is inserted across the relay coil.
- The shown diagram is a typical wiring for a high gas level alarm.

⚠ Failure to insert a circuit protection diode may result in the circuit not working, and damage to the monitor if a voltage spike is created by the relay.

Step 4 — Switch to GND



- To switch to GND, wire to pins:
 - 4 (High alarm) or 5 (Low alarm)
 - 6 (Ground).
- ⓘ If the switch to GND output is used, make sure the relay coil doesn't draw more than 150 mA, that the voltage doesn't exceed 24V and that a protection diode is inserted with correct polarity across the relay coil.
- ⓘ Wiring for alarm will only operate while the handheld monitor is powered by the supplied AC/DC adapter.

For further support, contact [Technical Support](#).