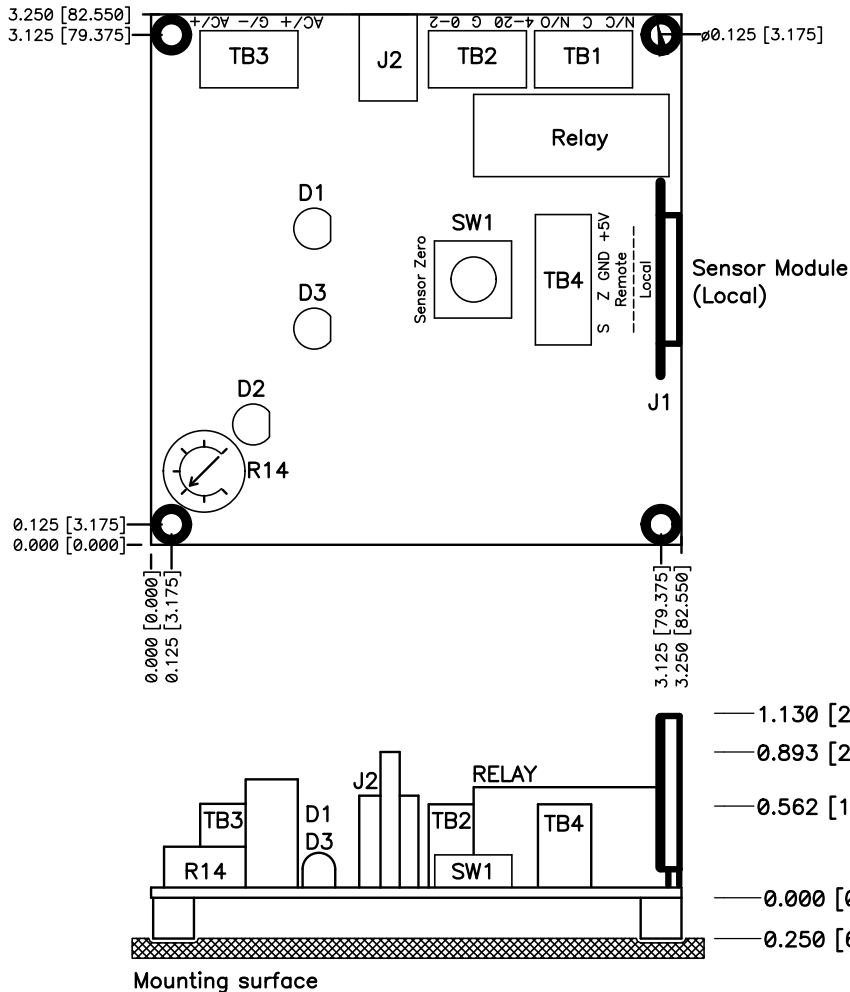


OEM-3 Ozone Controller Board Application Notes

Eco Sensors, Inc.



Terminal Block Connections:

- TB1: Relay contacts (5 A @ 250 VAC MAX).
- TB2: 0–2Volt and 4–20 mA analog outputs.
- TB3: Board power supply input.
14–24 V AC/DC.
- TB4: Remote sensor connections.
+5V: Power out
GND: Ground
Z: Re-zero out
S: Signal in

LED Indicators

- D1 (Yellow): On when relay energized
- D2 (Green): On when below setpoint
- D3 (Green): On when power applied

Other Features:

- R14: Setpoint adjust
(0–100% of Setpoint)
- SW1: Sensor re-zero
- J1: Sensor Module connector

Installation Notes

- Line voltage is present on the board around terminal block TB1. Allow at least 0.250 inches (6.35 mm) clearance behind board.
- All mounting holes are connected to circuit ground and also to position 1 of terminal blocks TB2 and TB3.
- Maximum component height above board mounting surface is 1.13 inch (28.70 mm).
- Sensor module is shown mounted directly to main circuit board. With the SM-100, the sensor may be operated remotely at cable lengths up to 25ft.
- The 0–2 V and 4–20 mA analog outputs are configured to output 1 V and 12 mA at Setpoint. Setpoint is determined by the sensor module.
- Potentiometer R14 controls the relay switching threshold. It is scaled from 0–100% of Setpoint. Setpoint is determined by the sensor module.
- LED D1 (yellow) is illuminated when detected level is greater than threshold setting and relay is energized. It responds with a short time delay.
- LED D2 (green) is illuminated when detected level is less than threshold setting. It responds quickly to changes.
- To reduce shock hazard during bench testing, connector J2 may be used to supply DC power (12 VDC nominal, center pin positive)
- Mounting holes are 0.125" / 3.175 mm diameter. Maximum outer diameter for screws, standoffs, washers, etc. is 0.25 inch / 6.35 mm.