



ADVANCING
VENTILATION®

SC02 Sensor

Supplemental Wiring Manual for Accessories

TR-Series

TRC-Series

TRCe-Series

TRLPe-Series

TRe-Series



SC02-W

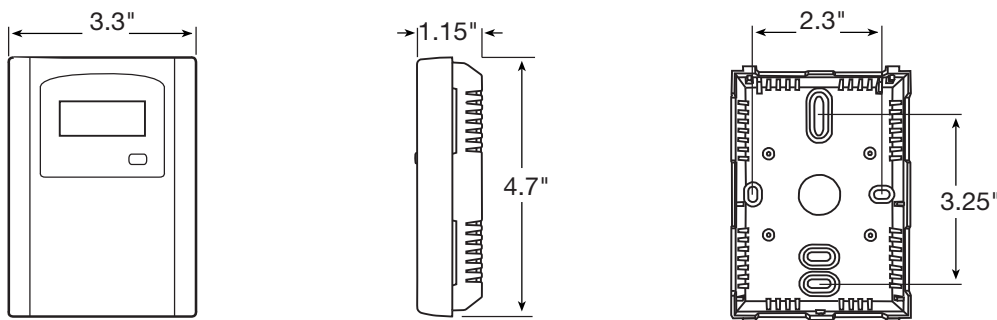
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1.0 OVERVIEW

The SCO2 monitor uses a highly accurate and reliable Non-dispersive Infrared (NDIR) with state-of-the-art digital linearization and temperature compensated circuitry to detect CO2 levels in an attractive, low profile enclosure for room applications and a duct mount version provide a linear analog signal output of 4–20 mA, 0–5, or 0–10 VDC and a Normally Open (NO) relay to control an alarm or ventilation fan in various ways.

2.0 DIMENSIONS

2.1 SCO2-W



3.0 ELECTRICAL

3.1 WIRING SCHEMATICS

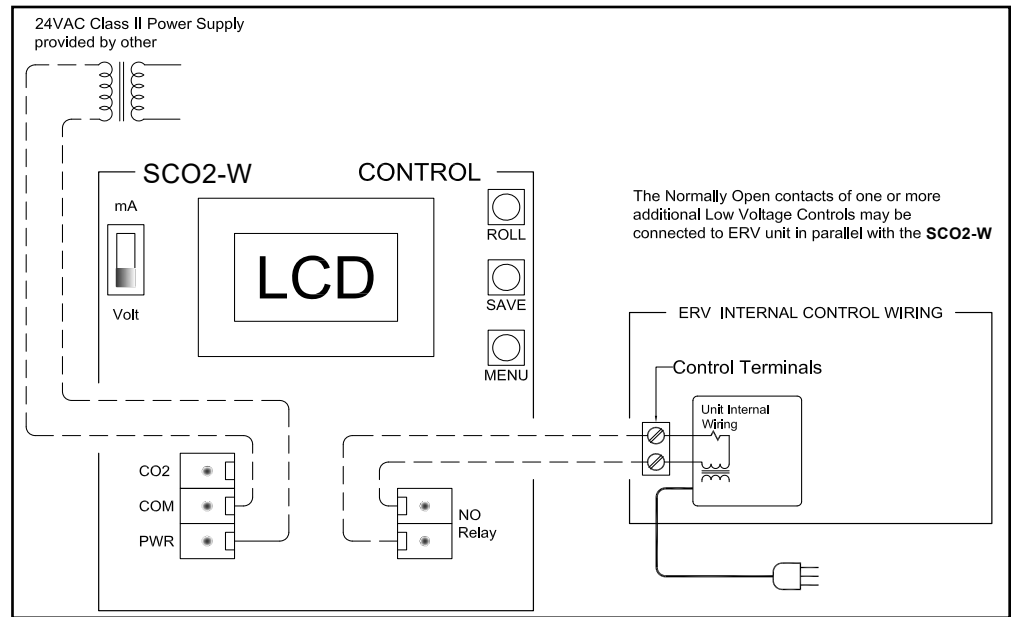


FIGURE 3.1.0 WIRING SCHEMATIC FOR TR90, TR130, TR200, TR300 UNITS ONLY

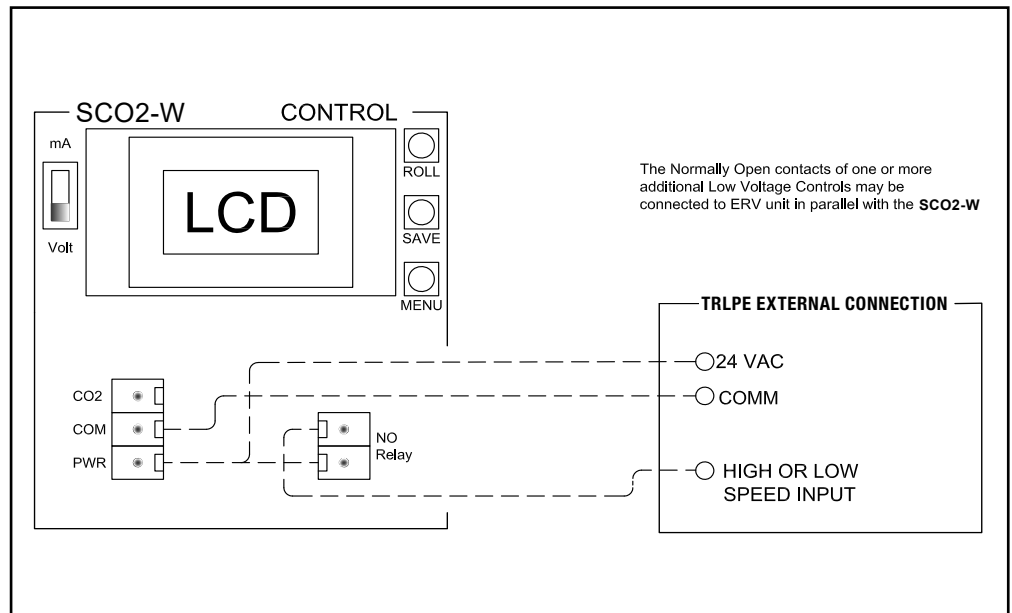


FIGURE 3.1.1 WIRING SCHEMATIC FOR TRLPe-SERIES UNITS

In this example, SCO2-W Controller turns the Energy Recovery Ventilator (ERV) on at High speed when CO2 level exceeds SCO2-W Controller Relay setting.

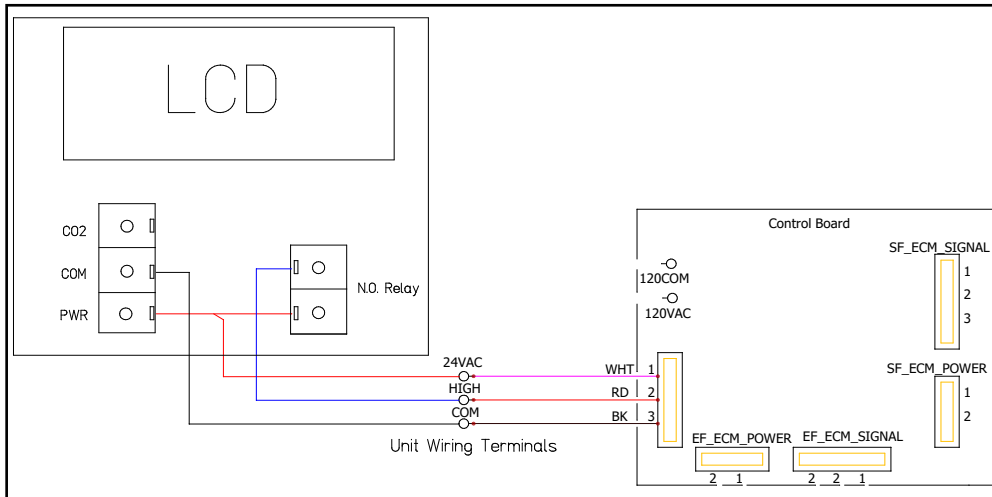


FIGURE 3.1.2 WIRING SCHEMATIC FOR TRe-SERIES UNITS

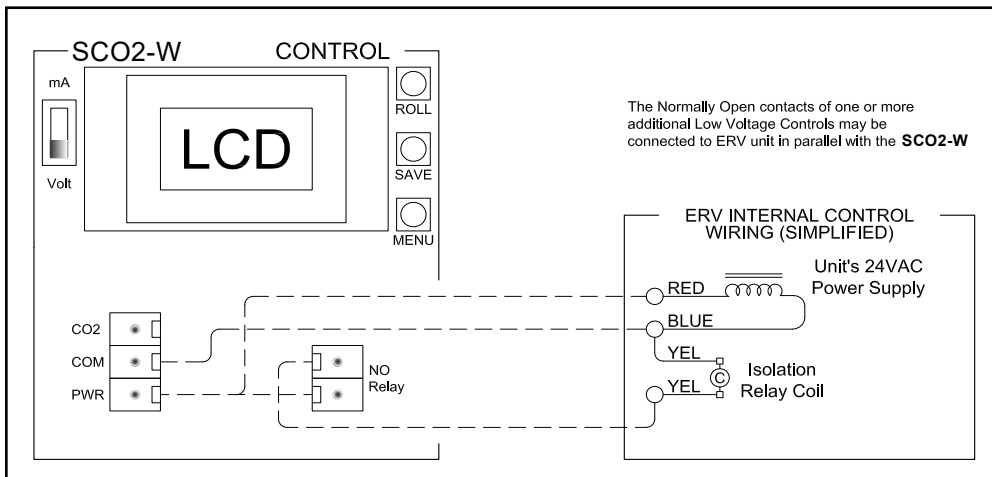


FIGURE 3.1.3 WIRING SCHEMATIC FOR TRC500, TRC800, AND TRC1200 UNITS WITHOUT ECM

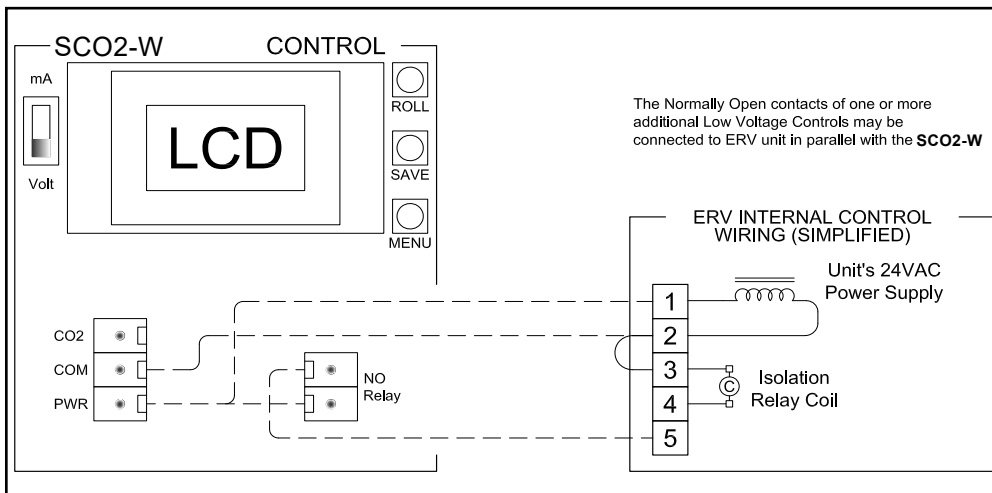


FIGURE 3.1.4 WIRING SCHEMATIC FOR TRC1600 UNITS WITHOUT ECM

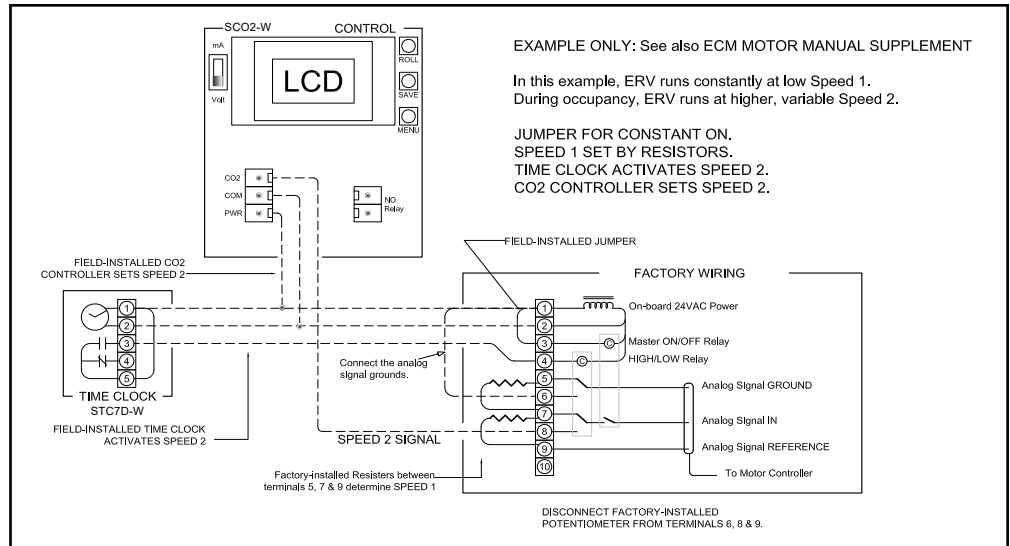


FIGURE 3.1.5 WIRING SCHEMATIC FOR TRCe500 UNITS WITH ECM AND TERMINAL BLOCK

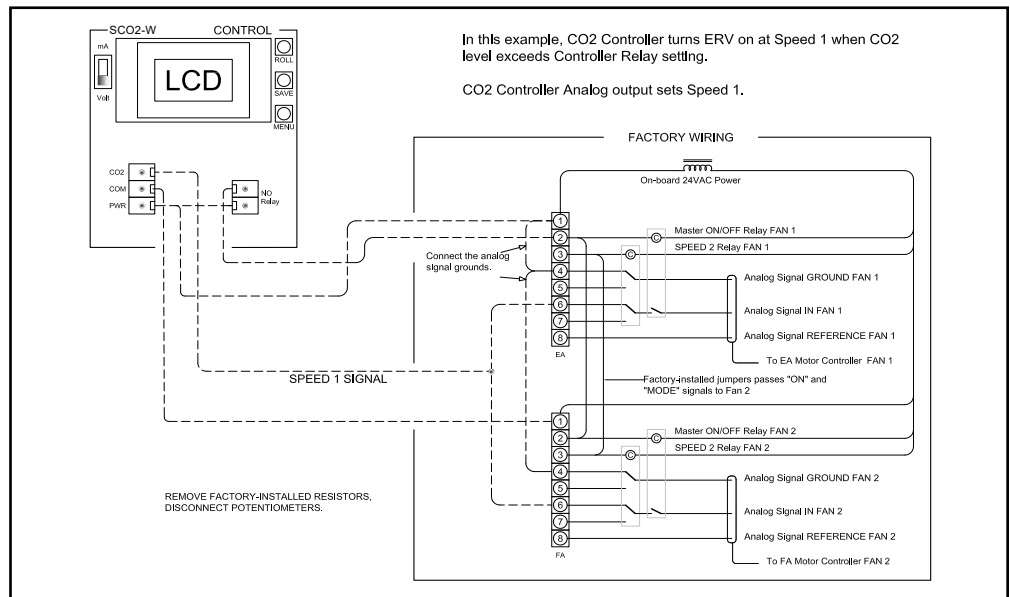


FIGURE 3.1.6 WIRING SCHEMATIC FOR TRCe800 AND TRCe1200 UNITS WITH ECM AND TERMINAL BLOCK

In this example, the SC02 Controller turns the ERV on at speed set by potentiometer(s) when CO2 level exceeds SC02 Controller Relay setting. TRCe500 Circuit Board shown with one potentiometer. TRCe800 and TRCe1200 Circuit Boards have two potentiometers.

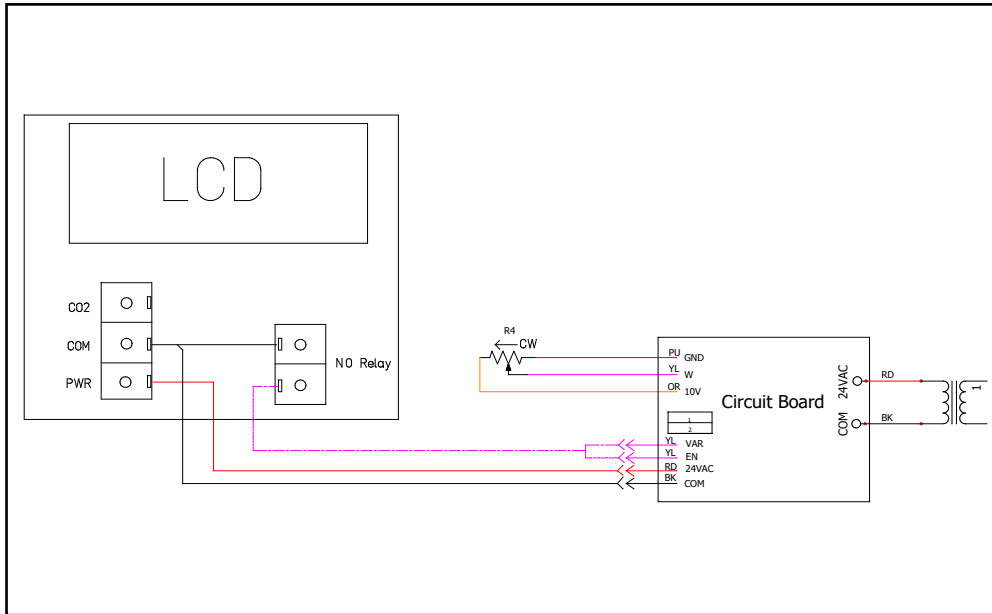


FIGURE 3.1.7 WIRING SCHEMATIC FOR TRCe500, TRCe800, AND TRCe1200 UNITS WITH ECM AND CIRCUIT BOARD

In this example, the ERV does not run while unoccupied, set by timer. During occupancy, ERV runs at variable Speed. SC02-W Controller sets speed based on CO2 levels. Remove the potentiometer(s) by cutting the wires at the potentiometer. Cap the orange and purple wires from the potentiometer with wire nuts. TRCe500 Circuit Board shown with one potentiometer. TRCe800 and TRCe1200 Circuit Board has two potentiometers and the cut wires can be wired in parallel back to the SC02-W Controller.

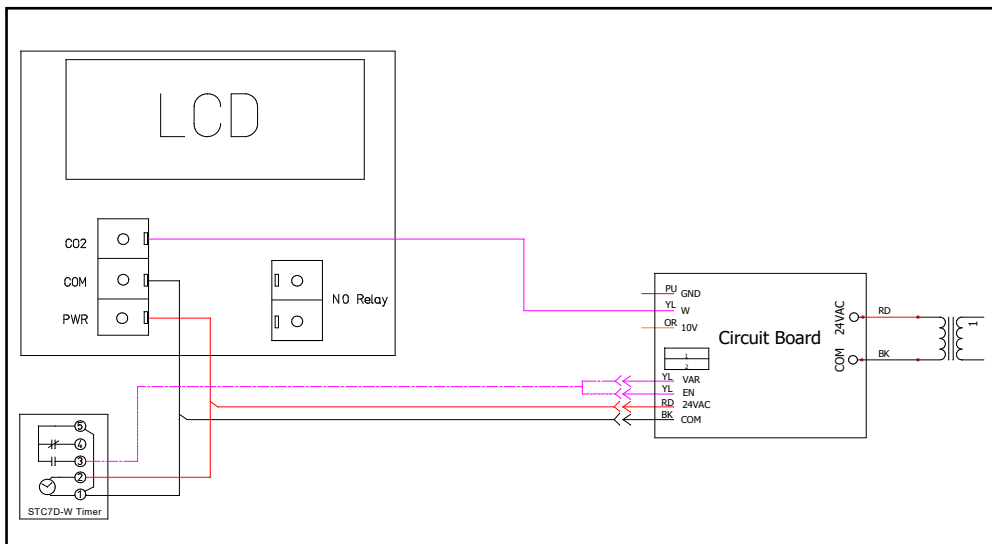
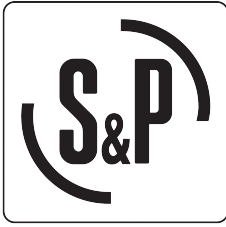


FIGURE 3.1.8 WIRING SCHEMATIC FOR TRCe500, TRCe800, AND TRCe1200 UNITS WITH ECM AND CIRCUIT BOARD AND TIMER



**ADVANCING
VENTILATION®**

S&P USA
(800) 961-7370
FAX: (800) 961-7379
6393 POWERS AVE.
JACKSONVILLE, FLORIDA
32217 USA
WWW.SOLERPALAU-USA.COM

S&P CANADA
(416) 744-1217
FAX: (416) 744-0887
6710 MARITZ DRIVE, UNIT 7
MISSISSAUGA, ON L5W 0A1, CANADA
WWW.SOLERPALAU-CANADA.COM

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