

CO220 CARBON DIOXIDE SENSOR CALIBRATION

TOOLS REQUIRED:

- Cylinder of 1000ppm Carbon Dioxide
- 0.2LPM Regulator and tubing assembly
- Multimeter for milliamps or volts

PROCEDURE:

Kit assembly-

- 1 Screw the regulator with tubing on to the tank of calibration gas.

Calibration Checking-

- 1 Remove front cover and place shorting block at JP5 over jumper JP2 and attach end of tubing onto the calibration gas adapter nipple.
- 2 Connect a milliamp meter in series with the output signal that is capable of reading 4 to 20 milliamps or a volt meter if the analog output is set for volts. (A controller or other instrument may already be attached, and may be used instead of the meter)
- 3 Start the gas flow by pushing in and turning the control knob on the regulator (the flow rate is preset to 0.2LPM) and allow about a minute for the reading to stabilize.
- 4 If the reading differs by more than +/- 75 ppm from the concentration of test gas (1000 ppm) use the "UP" and "DOWN" buttons to adjust the reading.

NOTE: the response to the buttons is not immediate-allow several seconds for reading to catch up after making an adjustment.

- 5 When reading agrees with the concentration of calibration gas remove shorting block on jumper JP2 and replace in its original position at jumper JP5.
- 6 Turn gas off, disconnect tubing and replace dust cover on calibration nipple and replace the front cover.

