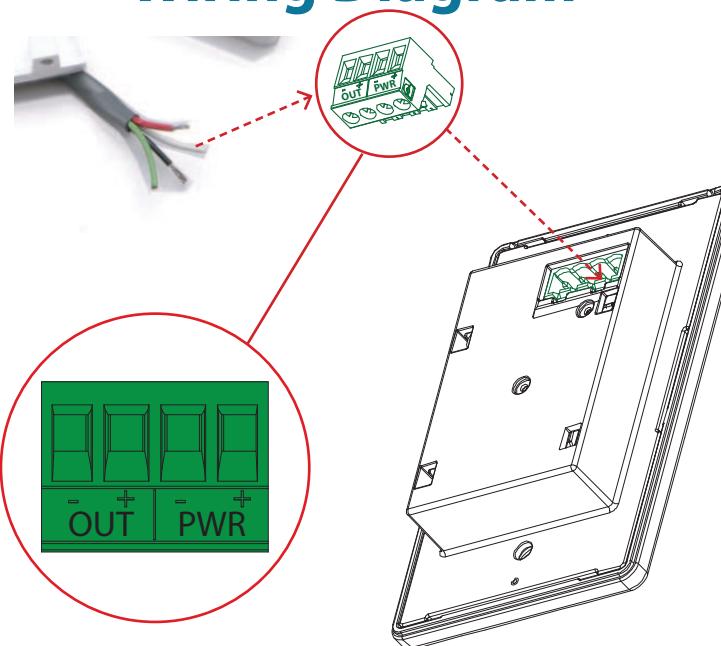
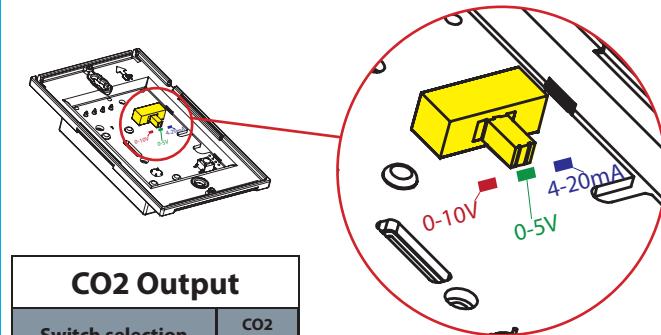


## Wiring Diagram



## Output setting Diagram



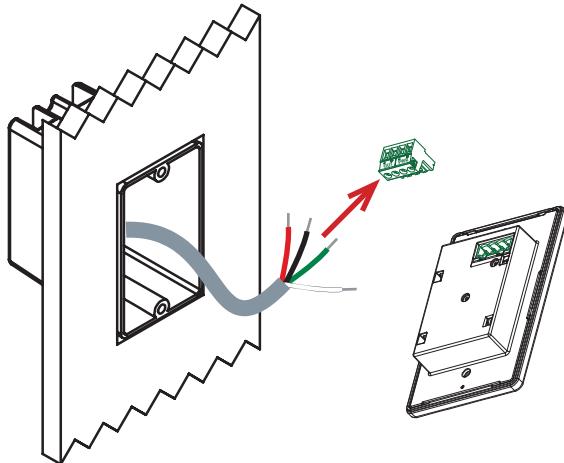
### CO2 Output

Switch selection	CO2 ppm
Current Output (4-20 mA)	4 mA
	12 mA
Voltage Output 0-10V	20 mA
	0 Volts
Voltage Output 0-5V	1,000
	5 Volts
Voltage Output 0-5V	2,000
	10 Volts
	0 Volts
Voltage Output 0-5V	1,000
	2.5 Volts
Voltage Output 0-5V	2,000
	5 Volts

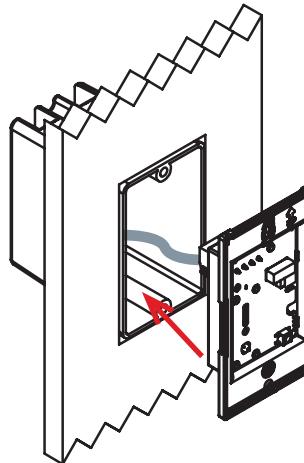
### Selectable Output Setting

Use switch to select between 3 different outputs

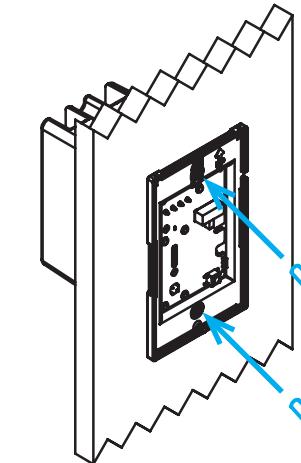
- 4-20 mA output -  $R_{LOOP} < 600 \Omega$
- 0-10 V output } Minimum input resistance 10K  $\Omega$
- 0-5 V output }



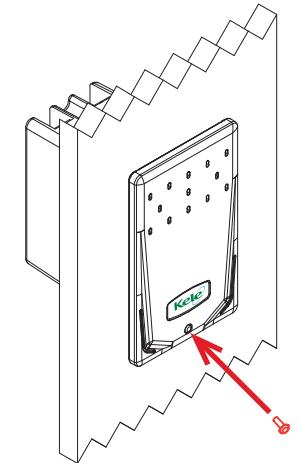
- 1 • Mount in standard single gang junction box  
• Connect wires to terminal plug  
• Then insert terminal plug into mating header



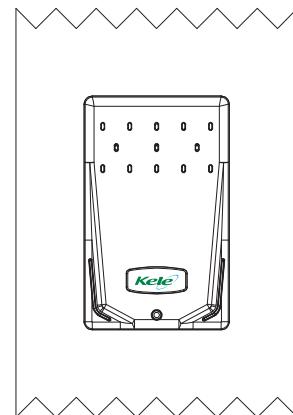
- 2 • Insert Kele KULP CO2 sensor into junction box



- 3 • Insert 2 mounting screws

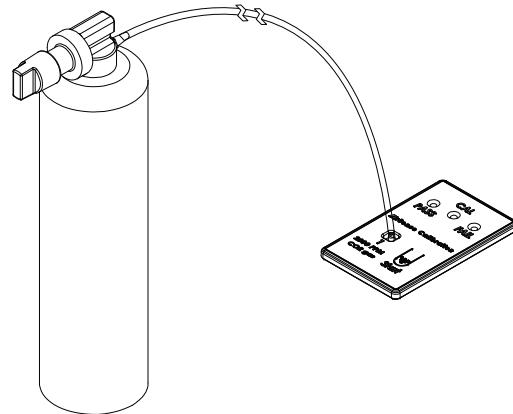


- 4 • Snap on cover  
• Install locking screw



- 5 • Installation complete

## Calibration-Kit

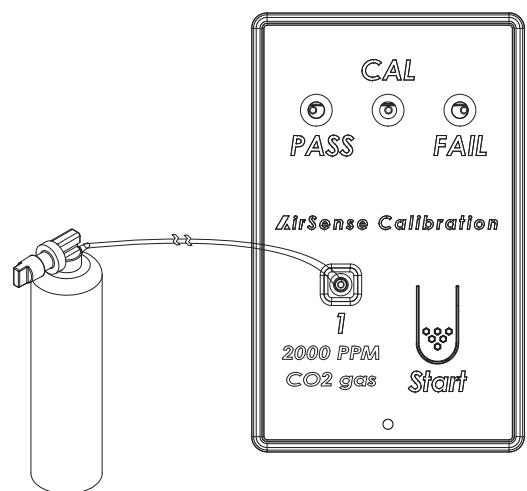


Your sensor comes factory-calibrated and does not need to be calibrated upon initial installation. Calibration kits are available.

## CO2 Calibration Procedure

### Setting Up

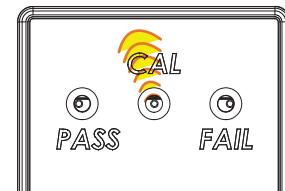
- Unscrew locking screw with Phillips screw driver
- Remove Kele KULP cover plate
- Insert Kele Calibration cover plate



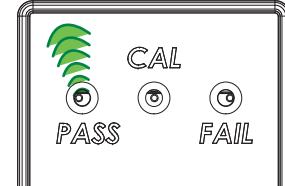
### Calibration

- Insert 1/8 inc OD CO2 calibration gas tube in to nipple mark "1"
- Turn on 2000 PPM CO2 gas
- Press button marked "Start"
- Calibration sequence activated "CAL" LED will blink yellow
- Green LED will blink if the unit "PASS" calibration  
If pass skip to step 7
- Red LED will blink if the unit "FAIL" calibration  
If fail repeat step 2 – step 5
- Turn off CAL gas.
- Remove calibration cover.
- Reinstall Kele KULP cover plate
- Reinstall locking screw

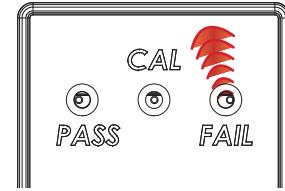
## CO2 Calibration Indicator LEDs



Calibration sequence activated "CAL" LED will blink yellow



Green LED will blink if the unit "PASS" calibration



Red LED will blink if the unit "FAIL" calibration

Overall Specification							
Parameter	Value						
Power Requirements	18 - 30 VDC or 18 - 28 Vrms AC						
Power Consumption	2.5 VA						
Operating Temperature Range	0 - 50 °C						
Operating Humidity Range	0 - 99% RH, non-condensing						
Output (for details see switch output diagram page 1)	<table border="1"> <tr> <td>Current Output</td> <td>4-20 mA</td> </tr> <tr> <td>Voltage Output</td> <td>0-10V</td> </tr> <tr> <td>Voltage Output</td> <td>0-5V</td> </tr> </table>	Current Output	4-20 mA	Voltage Output	0-10V	Voltage Output	0-5V
Current Output	4-20 mA						
Voltage Output	0-10V						
Voltage Output	0-5V						
Optional Current Output (linear)	4-20 mA R <sub>LOOP</sub> < 600 Ω						
Storage Temperature	-10 to 60 °C						
Dimensions	4.57 H x 2.80 W x .27 D inches						

CARBON DIOXIDE SENSOR (CO2)	
Parameter	Value
Operating Principle	Non-dispersive infrared (NDIR)
Gas Sampling Method	Diffusion
Measurement Range	0-2000 ppm (Other ranges available by request)
Repeatability	± 20 ppm CO2
Measurement Accuracy	± 30 ppm ± 2% of reading
Recommended Calibration Interval	5 years
Warm Up Time	Less than 1 minute
Calibration	ONE Point : Single-button calibration, with Kele Calibration Kit (Patented)



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