

## Low Profile with LCD CO2 Transmitter/switch

0 -2000/0 -5000 ppm | 4-20mA; 0-5/10VDC  
Integrated setpoint relay



CO2RL

## High performance in an elegant design

- The industry's best looking CO2 sensor meets demanding architectural standards. Fits in any standard j-box or low voltage bracket.
- No exposed screws; unobtrusive tamper resistant design
- Popular colors to match any decor

### Easy to install and maintain

- Integrated display and pushbutton menus for field selectable scale, calibration, and operational modes
- Dual 4-20mA and 0-5v/0-10v output (jumper selectable)
- Integrated high-reliability solid-state set-point relay is ideal for direct control applications; easy to set up thanks to LCD



LCD simplifies install

### High reliability reduces call backs

- Non-dispersive infrared sensing element (NDIR)
- Gold-plated optical chamber for high performance and endurance
- Field replaceable CO2 sensor
- Industry leading 7-year warranty on electronics; NDIR module 3 years

### High accuracy for improved system performance

- Selectable auto-calibration mode returns sensor to baseline values
- +/-2% full scale to 1400 ppm. (5000 ppm f.s.)



**SPECIFICATIONS**

Power Supply		12-30vdc/24vac <sup>(1)</sup> , 100mA max.
Analog Outputs	Dual Analog	3-wire 4-20mA and 0-5v/0-10v <sup>(2)</sup> (jumper)
	Output scaling	0 - 2000 or 0 - 5000 ppm (selectable)
Digital Setpoint Output	Programmable	Solid-state, 1A @ 30VAC/DC, N.O.
Sensor Performance	Type	Non-dispersive Infrared (NDIR)
	Accuracy	+/-2% full scale to 1400 ppm. (5000 ppm f.s.)
	Response time	60 seconds to 90% reading
	Output update rate	3 seconds
LCD Menu Setup Parameters	<i>SPH</i> , Setpoint, Hi (On point)	500ppm to full-scale (700ppm default)
	<i>SPL</i> , Setpoint, Lo (Off point)	400ppm to full-scale-50 (600ppm default)
	<i>SCL</i> , Scaling	0-2000ppm or 0-5000ppm (2000ppm default)
	<i>ADJ</i> , Adjustment	Offset adjustment +/-250ppm (0 default)
	<i>CAL</i> , Calibration mode	Automatic mode ON or OFF (default=ON)
Operating Environment	Temperature	32 to 122F (0 to 50C)
	Humidity	0-95% non-condensing
Enclosure	Material	ABS Plastic
	Dimensions (fits low-voltage bracket)	4.7" h x 2.9" w x 1.24" d (0.48" wall profile)

(1) One side of transformer secondary is connected to signal common. Dedicated transformer is recommended.  
 (2) 15vdc power supply voltage required for 10 volt output.

**ORDERING**

**LCD Visible**                      **CO2RL** -

**LCD Concealed**                      **CO2R** -

**Color**

- 1 = White
- 2 = Ivory
- 3 = Brown
- 4 = Light Almond
- 5 = Almond
- 6 = Black
- 7 = Gray

**Replacement Sensor Elements**

CO2-5 Replacement NDIR element



CO2R with concealed LCD



Field replaceable gold-plated CO2 NDIR