



The CO₂ WALL-STAT™

Indoor Air Quality Sensor

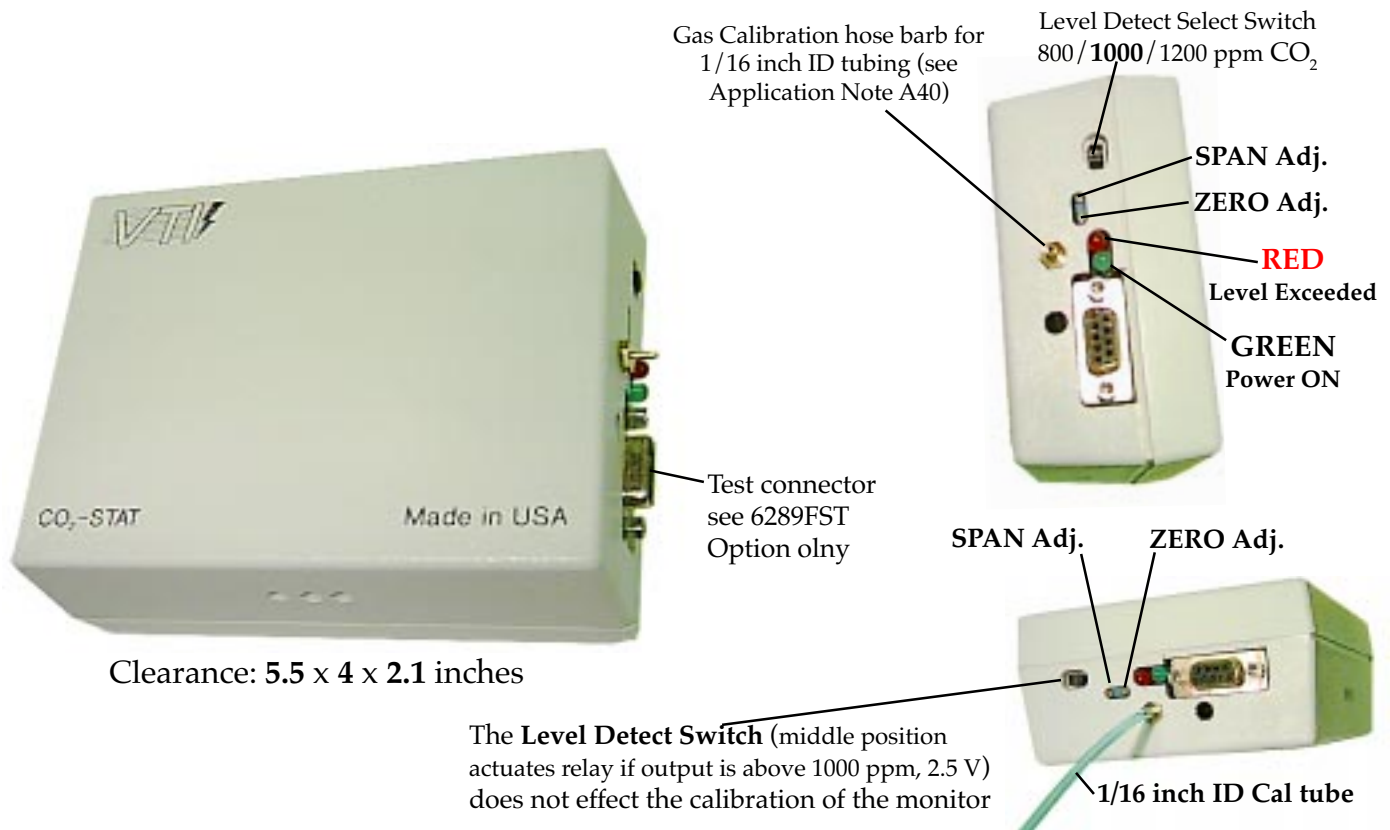
Model 6289W

Features:

The Ideal IAQ CO₂ Sensor with long term low maintenance operation

- No moving parts infrared sensor
- Convenient **24 VAC** or DC operation
- Smallest, most compact size available
- Excellent long term stability
- **ECONO-CAL™** Calibration Gas Kit
- No pump or particulate filters required
- Diffusion gas sampling
- Adjustable set point SPDT control relay
- **Linear** 0-5 VDC and 4-20 mA outputs
- **LED's** indicate **power** on and **relay activation**
- Non-Dispersive Infra-Red (**NDIR**) technology
- Calibration gas port easily accessible
- Optional digital LCD display 0-1999 ppm
- **Test Connector** installed as an **Option**

Model 6289W CO₂ WALL-STAT™



Application:

HVAC

- Hospitals
- Offices
- Schools
- Theaters
- Indoor Sports Arenas

The VALTRONICS Model **6289W** is a non-dispersive infrared carbon dioxide monitor for use as an indoor air quality sensor. It produces a control signal proportional to carbon dioxide concentration. This control signal is then used to provide remote control of the outdoor air dampers, thereby controlling the fresh air intake or varying the ventilation rates while still maintaining safe indoor air quality.



PPM CO ₂	Output V	Max	Min	4-20 mA	Max	Min
0	0.000	0.125	-0.125	4.00	4.4	3.6
50	0.125	0.250	0.000	4.40	4.80	4.00
100	0.250	0.375	0.125	4.80	5.20	4.40
150	0.375	0.500	0.250	5.20	5.60	4.80
200	0.500	0.625	0.375	5.60	6.00	5.20
250	0.625	0.750	0.500	6.00	6.40	5.60
300	0.750	0.875	0.625	6.40	6.80	6.00
350	0.875	1.000	0.750	6.80	7.20	6.40
400	1.000	1.125	0.875	7.20	7.60	6.80
450	1.125	1.250	1.000	7.60	8.00	7.20
500	1.250	1.375	1.125	8.00	8.40	7.60
550	1.375	1.500	1.250	8.40	8.80	8.00
600	1.500	1.625	1.375	8.80	9.20	8.40
650	1.625	1.750	1.500	9.20	9.60	8.80
700	1.750	1.875	1.625	9.60	10.00	9.20
750	1.875	2.000	1.750	10.00	10.40	9.60
800	2.000	2.125	1.875	10.40	10.80	10.00
850	2.125	2.250	2.000	10.80	11.20	10.40
900	2.250	2.375	2.125	11.20	11.60	10.80
950	2.375	2.500	2.250	11.60	12.00	11.20
1000	2.500	2.625	2.375	12.00	12.40	11.60
1050	2.625	2.756	2.494	12.40	12.82	11.98
1100	2.750	2.888	2.613	12.80	13.24	12.36
1150	2.875	3.019	2.731	13.20	13.66	12.74
1200	3.000	3.150	2.850	13.60	14.08	13.12
1250	3.125	3.281	2.969	14.00	14.50	13.50
1300	3.250	3.413	3.088	14.40	14.92	13.88
1350	3.375	3.544	3.206	14.80	15.34	14.26
1400	3.500	3.675	3.325	15.20	15.76	14.64
1450	3.625	3.806	3.444	15.60	16.18	15.02
1500	3.750	3.938	3.563	16.00	16.60	15.40
1550	3.875	4.069	3.681	16.40	17.02	15.78
1600	4.000	4.200	3.800	16.80	17.44	16.16
1650	4.125	4.331	3.919	17.20	17.86	16.54
1700	4.250	4.463	4.038	17.60	18.28	16.92
1750	4.375	4.594	4.156	18.00	18.70	17.30
1800	4.500	4.725	4.275	18.40	19.12	17.68
1850	4.625	4.856	4.394	18.80	19.54	18.06
1900	4.750	4.988	4.513	19.20	19.96	18.44
1950	4.875	5.119	4.631	19.60	20.38	18.82
2000	5.000	5.250	4.750	20.00	20.80	19.20

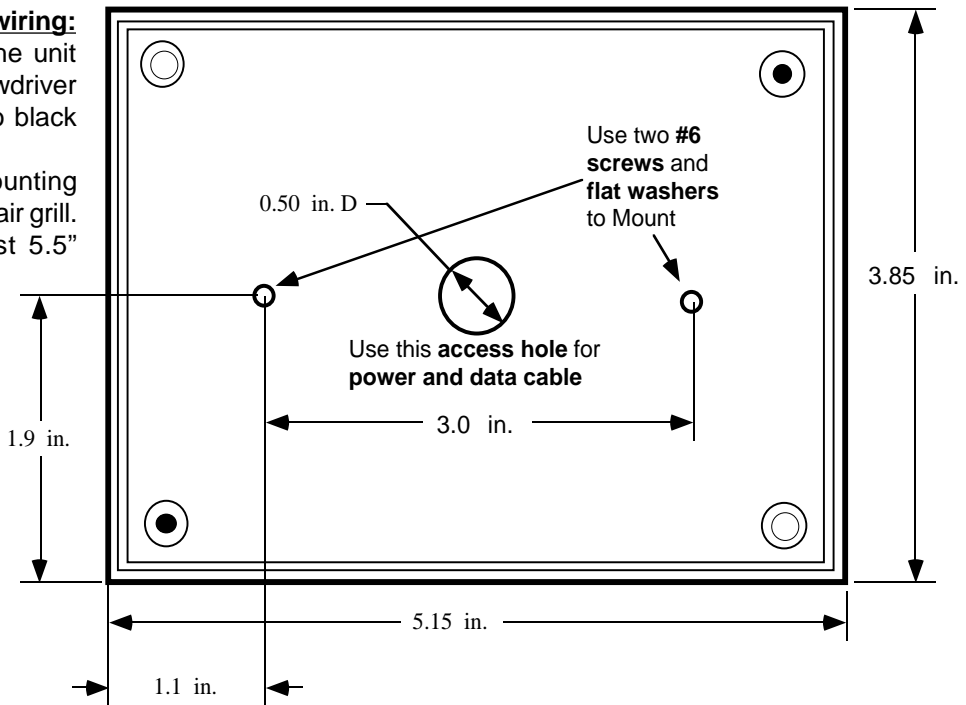
9 pin "D" Test Connector: Removed Aug 2000 - installed as an option only.



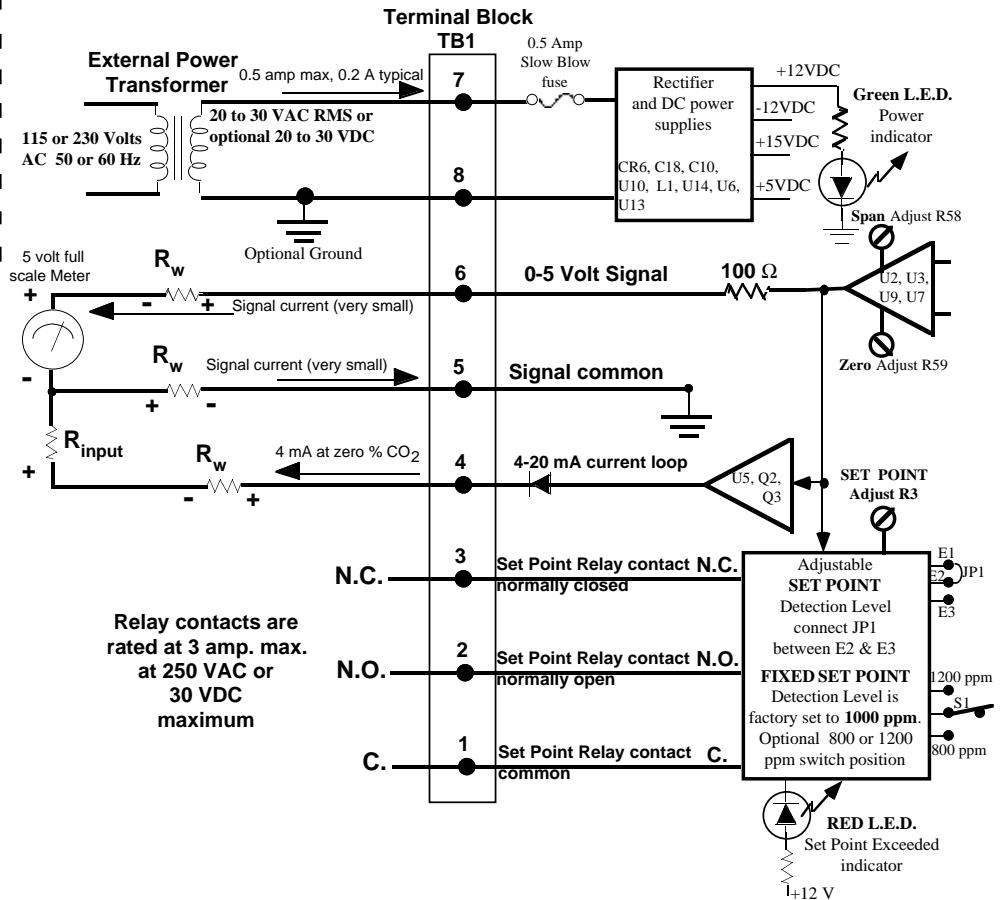
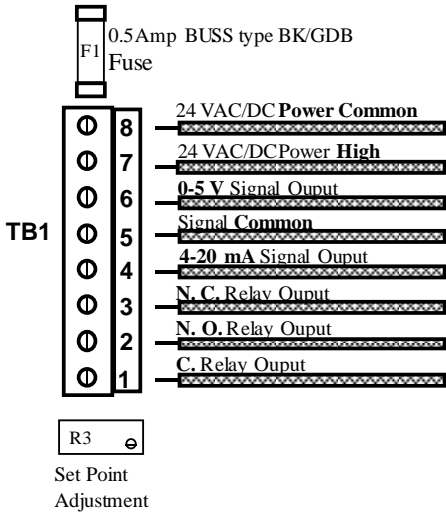
MOUNTING on the wall and wiring:

Remove the back cover of the unit using a broad bladed flat screwdriver to pry the cover near the two black press fit type studs .

Locate the unit on a flat mounting surface of a wall near a return air grill. The area should be at least 5.5" square. Drill two 0.093 inch diameter ($\frac{3}{32}$) holes using the DETAIL #1 as a guide. Mount the enclosure using two #6 screws and flat washers through the 1/8 inch diameter holes on either side of the 1/2 inch diameter cable access hole.



Using 22 AWG to 14 AWG (20 AWG typical) wire connected to terminal block TB1 (see diagram below), pull the power, signal, and relay contact wires (you only need to wire the functions that you want to use) through the 0.50 inch access hole.



Caution: DO NOT connect external power in the 4-20 mA current loop

Relay contacts are rated at 3 amp. max. at 250 VAC or 30 VDC maximum