GAS & SPECIALTY SENSORS

CARBON DIOXIDE SENSORS

CD-A SERIES



DESCRIPTION

The Kele Model CD-A represents a new level of economy in reliable non-dispersive infrared carbon dioxide sensors. It measures environmental carbon dioxide levels for use in demand-controlled ventilation, air-quality monitoring, and other HVAC applications in accordance with ASHRAE standards. Fully isolated analog outputs and a convenient center wiring terminal make installation both simple and trouble-free. The analog output is jumper-selectable, 4-20 mA or 0-10 VDC, over the industry standard 0-2000 ppm CO2 range. Models are also available with an optional LCD display and/or control relay with adjustable setpoint.



- 24 VAC/VDC power
- 0-10 VDC or 4-20 mA analog output, jumper selectable
- 0-5000 ppm CO2 range
- · Wall-mount and duct-sampling versions
- Isolation of output and power
- · Compact, attractive enclosure
- · Optional control relay with adjustable setpoint
- Simple single-point calibration
- Optional LCD display
- Factory calibrated









CD-AD-LCD CD-AW-LCD



Duct Probe Assembly (included with above)

SPECIFICATIONS			
Supply Voltage	20-30 VAC @ 2.5 VA or 18-30 VDC	Deadband	50 ppm (alarm)
	@ 104 mA	Relay Setpoint	1000 ppm
Accuracy	±5% of reading or ±75 ppm,		(field adjustable 700-1300 ppm)
	whichever is greater Max drift (per	Relay Output	N.O. (N.C. field selectable),
	year) ±75 ppm Repeatability ±20		2A @ 24 VAC, (40 ppm DIF)
	ppm	Operating Temperature	32° to 122°F (0° to 50°C)
Signal Output	0-10 VDC (factory setting) 4-20 mA	Operating Humidity	0% to 90% RH noncondensing
	(field selectable), 500Ω max	Dimensions	_
Measurement Range	0-2000 ppm (0-5000 fixed selectable)	Wall	5.2"H x 3.2"W x 1.4"D
Sensing Technology	Non-dispersive infrared (NDIR)	100	(13.2 x 8.1 x 3.6 cm)
Calibration Interval	Five years, Span only (automatic	Duct	5.2"H x 3.2"W x 3.4"D
	electronic zero adjustment)		(13.2 x 8.1 x 8.6 cm)
Life Expectancy	10 years typical	Weight	
Visual Indication	0.35" LCD (0.88 cm), 4 digit	Wall	0.61 lb (0.27 Kg)
Warm Up Time	3 minutes	Duct	1.35 lb (0.61 Kg)
Response Time	Less than 1 min	Warranty	1 year

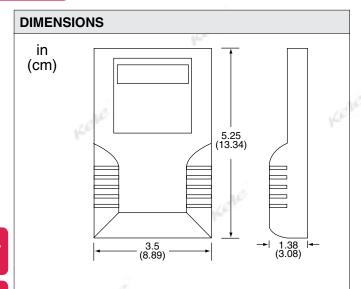
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INSTALLATION

The wall-mounted **CD-AW** must be placed in an area that is representative of the entire conditioned space. Recommended mounting height is 4' to 6' (1.22 to 1.83m) above the floor. Avoid drafts for locations where occupants may routinely breathe toward the sensor.

The duct-sampling style **CD-AD** requires a minimum air velocity of 400 fpm (3 m/s). Complete installation and configuration instructions are included with each unit shipped.

