GAS & SPECIALTY SENSORS

TRI-SENSE TRANSMITTERS

KTS SERIES



DESCRIPTION

The **Kele Tri-Sense Transmitters** combine three different sensors in a stylish, compact enclosure-reducing installation time and space required. The unit is designed to work in tandem with building automation systems to provide proper ventilation in enclosed spaces such as schools, offices, conference rooms, malls, and theaters. The CO, CO2 and RH sensors have an independent analog output for 0-10V or 4-20 mA, but the output type is the same. The output signal for VOC is in steps from (4, 12, 20 mA) or (0, 5, 10V). The unit is pre-calibrated for LED indication with a factory default setting for the appropriate gas. The sensors are equipped with pushbutton calibration and an easily accessible calibration port for field maintenance. Optional LCD display and relay output are available. The optional LCD display is selectable for any one of the three sensed variables.

FEATURES

- · Three-in-one sensor combinations
- · LED status indication
- Pre-calibrated to 20 ppm CO or 1000 ppm CO2 levels
- 0-10V or 4-20 mA output
- · Optional relay output
- Isolated power and output
- Simple push-button calibration
- Optional LCD display



SPECIFICATIONS
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Supply Voltage 18-28 VAC, 50/60 Hz @ 5 VA,

reverse polarity protected or

12-30 VDC @ 298 mA

Accuracy

CO ±2.5% full-scale

CO2 ±3% of reading or ±40 ppm **Humidity** 5% of reading (20% to 80% RH)

VOC ±10% ethanol

Signal Output Analog 4-20 mA @ 500Ω , 0-10V

VOC Stepped output (4, 12, 20 mA)

(0, 5, 10V)

Measurement Range

CO 0-200 ppm CO2 0-2000 ppm Humidity 0% to 100%

VOC 0-1000 ppm ethanol

Sensing Technology

CO Electrochemical

CO2 Non-dispersive IR (NDIR)

Humidity Capacitive VOC

Sintered metal oxide

Visual Indication LED Flashes above alarm setpoint

Display Optional, four-digit LCD

Varm Up Time
Relay Output

Display Optional, four-digit LCD

<15 minutes (maximum accuracy)
Optional, SPST, N.O. 2A @
24 VAC/VDC

Relay Setpoint

CO Factory set at 20 ppm of CO

(20 ppm DIF)

CO2 Factory set at 1000 ppm of CO2

(5 ppm DIF)

Operating Temperature 32° to 122°F (0° to 50°C)

Operating Humidity 0% to 99% RH (noncondensing)

Dimensions

Wall 4.5"H x 2.8"W x 1.0"D (11.4 x 7.3 x 2.54 cm)

Duct 4.5"H x 2.8"W x 6.9"D (11.4 x 7.3 x 17.5 cm)

Duct probe 1.7" (4.3 cm) diameter,

6.25" (15.8 cm)

Weight

Wall 0.25 lb (0.11 Kg) **Duct** 0.5 lb (0.23 Kg)

Warranty 1 year

September 2016

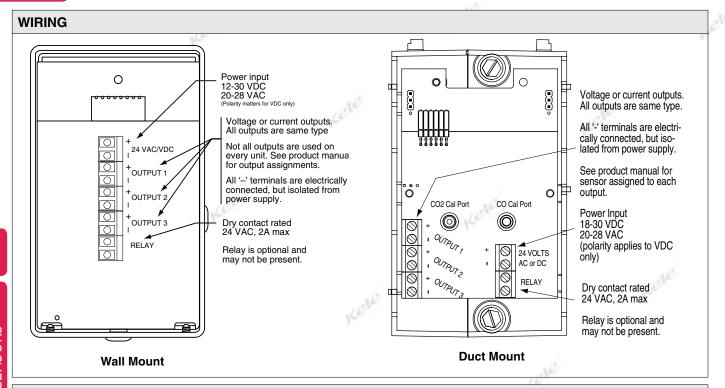
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ORDERING INFORMATION

MODEL	DESCRIPTION					
KTS	Kele Tri-Sense IAQ transmitter					
	SENSOR COMBINATION					
	134	CO, RH, VOC transmitter (output 1, 2, 3)				
	234	CO2, RH, VOC transmitter (output 1, 2, 3)				
	ANALOG OUTPUT					
		С	4-20 mA current output (VOC in steps 4, 12, 20 mA)			
	V 0-10 VDC voltage output (VOC in steps 0, 5, 10V)					
			APPLICATION			
W Wall mount			ınt			
			D	Duct mount		
				OPTIONS		
				R	Integral relay	
				LCD	Four digit LCD display	

ACCESSORIES

FREE CUSTOM CALIBRATIONS, JUST ASK

Control transformer, 120:24 VAC, 40 VA, Class 2 691-K0A DCP-1.5-W Power supply, 24 VAC IN to 24 VDC OUT DCPA-1.2 Power supply, 120 VAC IN to 24 VAC/24 VDC OUT **GAS-CO-200** 200 ppm carbon monoxide (CO) in air, 17L

GAS-CO2-2000 2000 ppm carbon dioxide (CO2) in nitrogen (N2), 17L

UCK-1 Universal calibration kit for non-corrosive gases (N2, CO2, CH4, H2, O2, CO, and refrigerants)