

4~20mA analog transmitter Alphasense B series gas and O2-A2 oxygen sensor



Alphasense 4~20mA analog transmitter has the following characteristics:

- Factory calibration and customer customization, ready to use
- Wide operating voltage range
- Less affected by RFI

The Alphasense 4~20mA analog transmitter provides OEM manufacturers with an economical solution to integrate transmitters into fixed installation systems. The range of each sensor is shown in Table 1 below. The transmitter is supplied with pre-calibrated sensors.

The performance of 4~20mA output signal can be obtained by consulting the single sensor parameter table.

In order for OEM manufacturers to distinguish their own products from others, the sensor vent is designed by OEM.

If necessary, accessories, connectors/end connectors (as shown in Figure 2) can be purchased.

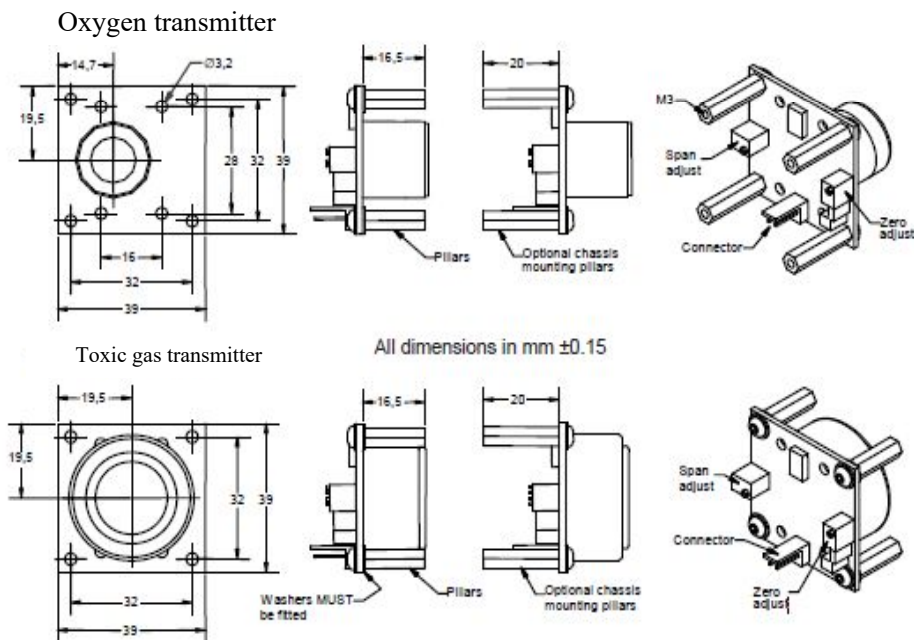
Table 1 Transmitters and sensors

gas	Sensor B series	Maximum concentration (ppm)
carbon monoxide	CO-BF	5000
	CO-B1	5000
	CO-BX	2000
hepatic gas	H2S-B1	200
	H2S-BH	50
	H2S-BE	2000
sulfur dioxide	SO2-BF	100
	SO2-BE	2000
nitrogen dioxide	NO2-B1	20
chlorine	CL2-B1	20
hydrogen cyanide	HCN-B1	100
chlorine hydride	HCL-B1	20
oxygen	O2-A2	15~25%O ₂ (standard) <i>Other ranges please contact the original factory</i>

Specify the maximum full-scale gas concentration required. Do not exceed the upper limit of gas concentration measurements shown in the table above.

import	type	3 electrode gas sensor: oxygen or B series
	range	toxic gas sensor is shown in the above table
output	Off-state	The short circuit FET connects the working electrode to the reference electrode
	bias	Just zero bias
	temperature compensation	not have
	type	4~20 mA 2-line circuit power supply
	Output current range	3.8~42mA
	service voltage	7.5~35 VDC
	accuracy	See sensor parameter table \pm
	resolution ratio	0.25% FS > 20
	Sensor overload	mA \pm 0.2% V supply
	Maximum loop resistance of power supply voltage stability	825 Ω @ 24 VDC reverse
protect		polarity diode
	Power supply and 4~20mA connection	Dual-line MOLEX plugs (Reference 22-27-2021)
environment	ambient temperature	-30°C~55°C
	storage temperature	-30°C~ 60°C
	Environmentally resistant coating	0~95% persistent (non-condensable)
		Conformal spraying

Figure 2 Transmitter Size Details



Optional part number 000-0420-KIT	
4 studs	Long 16.0 mm, M3 tapping
8 A gasket	M3 flat washer
4 to screws	Eight M3 locking screws
1 transmitter wiring	Molex slot, with 150mm wiring

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