EARTHSENSE

TRUSTED AIR QUALITY INSIGHT

EarthSense Systems Ltd.

Zephyr Gas Sensor Cartridge Calibration Certificate

Sensor Cartridge BIC2749

Calibration Summary

Location: *EarthSense manufacturing facility*
Start Date: *2024-01-15 00:00:00*
End Date: *2024-01-22 00:00:00*

Pollutant	Accuracy Specification (µg/m³)	RMSE (µg/m³)	RMSE Pass Criteria (µg/m³)	R^2	R^2 Pass Criteria	Slope of regression	Offset of regression (µg/m³)	Maximum Ref. Concentration (µg/m³)	Average Ref. Concentration (µg/m³)	Status
NO_2	8.0			0.73	≥0.69	1.13	0.7	84.7	29.6	Pass
NO	8.0	3.55	≤4.0			1.00	0.1	155.6	15.3	Pass
O_3	15.0	5.17	≤7.5			0.97	0.4	70.4	36.0	Pass

All EarthSense cartridges are progressed through a strict quality and calibration assessment prior to shipping.

All tests are performed in real-world conditions.

In conditions with relatively low concentrations of the target gas, the RMS error must be less than half the specified accuracy.

For higher ambient conditions, a strict R^2 criteria is applied. In all cases, the slope must be 1 ± 0.1 and the offset must be less than half of the specified accuracy of the sensor.

The co-located EarthSense reference station measurements have been ratified according to LAQM TG22 standards by Geoff Broughton (AQDM).

Approved for customer shipment: *Kiran Mistry*



Quality standards approval: *Dr. Roland Leigh*

