



## iGASair

### iGASair Internet Gas Monitor

**iGASair** is a new internet gas monitor from Turnkey. Its multiple gas sensors are housed within a shielded manifold and aspirated with an ultra-quiet pump, making the instrument equally suitable for both outdoor and indoor air pollution monitoring. Typical sensitivities are given below. Carbon dioxide is detected

by means of a nondispersive infrared (NDIR) detector, VOCs (isobutylene) by a 10.6 eV photoionization detector (PID), and the other gas species by means of 4-electrode electrochemical cells. A proprietary zero gas generation scheme is employed to eliminate zero drift in all of the gas sensor cells.

Species		Lower Detection Limit	Full Scale
Nitrogen dioxide	NO <sub>2</sub>	5 ppb	4000 ppb
Nitric oxide	NO	5 ppb	4000 ppb
Sulphur dioxide	SO <sub>2</sub>	10 ppb	4000 ppb
Ozone	O <sub>3</sub>	5 ppb	4000 ppb
Carbon monoxide	CO	0.1 ppm	50 ppm
Hydrogen sulphide	H <sub>2</sub> S	5 ppb	4000 ppb
Carbon dioxide	CO <sub>2</sub>	300 ppm	10000 ppm
Volatile organic compounds	VOC	5 ppb	40000 ppb



- Manifolds to measure and record up to 8 gas species simultaneously.
- Automatic zeroing by internal zero gas generation virtually eliminates drift.
- Also records atmospheric pressure, temperature and relative humidity.
- RS-485, Ethernet and Wi-Fi connectivity.
- Internal data storage.
- Battery, mains or solar powered.
- Compatible with Turnkey's AirQWeb for live internet air pollution monitoring.
- Android app available.
- Operating temperature range -20 °C to +50 °C.
- 12 V DC supply. Internal 6 V, 2 Ah NiMH battery.
- Can be used alongside Turnkey's range of continuous dust monitors.

**G0016 Readings**

LATEST	AVERAGE	HOUSE
<b>O3</b>		
28.41		ug/m <sup>3</sup>
<b>NO2</b>		
11.20		ug/m <sup>3</sup>
<b>SO2</b>		
23.41		ug/m <sup>3</sup>
<b>H2S</b>		
2.94		ug/m <sup>3</sup>
<b>CO</b>		
0.19		mg/m <sup>3</sup>
<b>NO</b>		
1.10		ug/m <sup>3</sup>

**REFRESH**

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**AirQWeb** Real-time Air Quality Data Monitoring

- Main Panel
- Control Room
- Visualise Data
- Comparison
- 3D Graph
- Auto Export
- Report
- Sampling
- Alerts
- Upload Data
- Configuration
- Notifications
- Extra >
- Viewer Only >
- User Guide

Green = Sampling online

Blue = Sampling offline

Red = Error/Connection lost

Yellow = Warning

**Instrument Information**

ID	Name	Location	GPS Coordinates
G0016	iGAS	Northwich	53.2667,-2.50000

**Data Table**

Date Time	O3 (µg/m <sup>3</sup> )	NO2 (µg/m <sup>3</sup> )	SO2 (µg/m <sup>3</sup> )	H2S (µg/m <sup>3</sup> )	CO (mg/m <sup>3</sup> )	NO (µg/m <sup>3</sup> )	NH3 (mg/m <sup>3</sup> )	VOC (µg/m <sup>3</sup> )
17 Sep 2018, 03:15:00	8.61	6.64	30.73	3.72	0.22	1.28	0.02	128.13
17 Sep 2018, 03:30:00	6.59	5.33	25.92	3.65	0.21	3.48	0.02	126.13
17 Sep 2018, 03:45:00	7.91	7.13	26.92	3.72	0.21	2.05	0.02	123.81
17 Sep 2018, 04:00:00	5.8	6.32	26.75	3.97	0.19	1.81	0.02	123.06
17 Sep 2018, 04:15:00	9.88	6.4	22.56	3.21	0.19	0.55	0.02	122.5
17 Sep 2018, 04:30:00	9.01	7.15	35.84	2.92	0.19	0.33	0.02	122.13
17 Sep 2018, 04:45:00	9.2	7.43	25.8	3.2	0.19	0.35	0.02	122.75
17 Sep 2018, 05:00:00	9.25	8.23	30.61	3.02	0.21	1.05	0.02	123.5
17 Sep 2018, 05:15:00	7.12	4.57	19.28	2.9	0.19	2.49	0.02	122.19
17 Sep 2018, 05:30:00	6.59	7.65	22.2	3.33	0.2	2.95	0.02	122.5
17 Sep 2018, 05:45:00	6.37	7.67	22.83	2.78	0.19	2.8	0.02	122.13
17 Sep 2018, 06:00:00	7.93	6.25	23.25	2.27	0.18	2.08	0.02	122.5
17 Sep 2018, 06:15:00	7.33	5.71	22.61	3.07	0.22	3.53	0.02	124.13
17 Sep 2018, 06:30:00	7.5	7.35	30.53	2.91	0.2	3.23	0.02	124.19
17 Sep 2018, 06:45:00	8.88	10.59	34.56	2.75	0.21	3.76	0.02	124.38
17 Sep 2018, 07:00:00	9.44	11.05	35.94	2.79	0.21	3.56	0.02	124.56
17 Sep 2018, 07:15:00	10.8	10.07	33.66	2.86	0.22	3.46	0.02	125.19
17 Sep 2018, 07:30:00	9.95	9.05	32.41	3.14	0.21	3.31	0.02	126.31
17 Sep 2018, 07:45:00	11.7	11.31	33.41	2.72	0.21	5.97	0.02	127.31
17 Sep 2018, 08:00:00	15.01	13.85	42.78	2.79	0.23	10.9	0.02	128.25

**Select Dates**

From  00:01 To  24:00

**Data Graph**