Turnkey Instruments
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iGAS*air* Internet Gas Monitor

iGAS*air* 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_2	5 ppb	4000 ppb
Nitric oxide	NO	5 ppb	4000 ppb
Sulphur dioxide	SO_2	10 ppb	4000 ppb
Ozone	O_3	5 ppb	4000 ppb
Carbon monoxide	CO	0.1 ppm	50 ppm
Hydrogen sulphide	H_2S	5 ppb	4000 ppb
Carbon dioxide	CO_2	300 ppm	10000 ppm
Volatile organic compounds	VOC	5 ppb	40000 ppb

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- 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.



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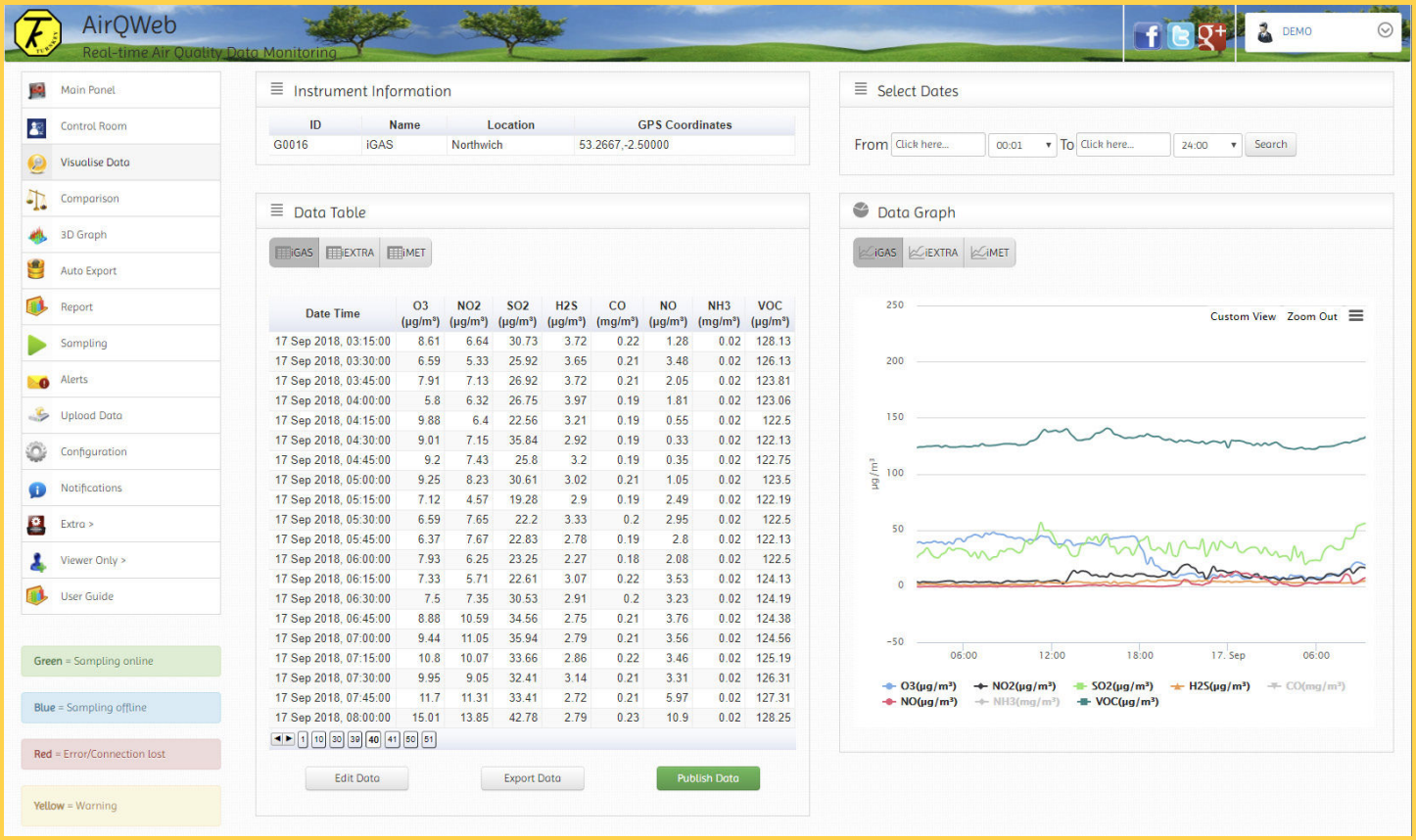

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