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iGAS

iGAS[®] internet Gas Monitor

iGAS[®] is a new internet gas monitor from Turnkey[®]. Its multiple gas sensors are housed within a shielded manifold and aspirated by means of 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 non-dispersive infra-red (NDIR) detector, VOCs (isobutylene) by a 10.6eV photo-ionization detector (PID), and the other gas species by means of 4-electrode electrochemical cells. A propriety zero gas generation scheme is employed to eliminate zero drift in all of the gas sensor cells.

Species	Lower Detection Limit	Full Scale
NO ₂	10 ppb	5000 ppb
NO	15 ppb	5000 ppb
SO ₂	4 ppb	2000 ppb
O ₃	4 ppb	2000 ppb
CO	4 ppb	2000 ppb
H ₂ S	1 ppb	2000 ppb
CO ₂	1 ppm	5000 ppm
VOC	5 ppb	50 ppm



- 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.
- RS485, Ethernet, Wi-Fi and Bluetooth connectivity.
- 2GB SD card for data storage.
- Battery, mains or solar powered.
- Compatible with Turnkey's AirQWeb for live internet air pollution monitoring.
- Android and iPhone apps are also available.
- Operating temperature range -20C to +50C.
- 12V DC supply, internal 6 Volt, 2AH NiMH battery.
- Can be used alongside Turnkey's range of continuous dust monitors.

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