

iGC

Ambient or Process Air Analyzer for Trace Chemicals



PRODUCT HIGHLIGHTS

- Process & workplace monitoring
- Multi component gas detection - BTEX
- Excellent sensitivity (ppb) levels
- Low cost of operation & sustainment
- Optional-calibration gas dilution system

iGC (industrial Gas Chromatograph) is an innovative 19 inch rack mounted ambient air analyzer designed to detect chemicals in the workplace environment or within process control equipment. It offers a significant improvement over traditional gas chromatographic instruments in design simplicity and cost of ownership. The analysis range is from 0.005 ppm to 100 ppm (parts per million) and is configured to report up to five components in an analysis.

Analysis begins by collecting a small air sample in two primary ways, via an internal pump or by using low pressure air bleed. The sample is collected and transferred to the sample modulator or pre-column which performs a concentration enrichment function. Once completed, the sample is transferred to the chromatographic column for separation of the mixture components. As the chemicals elute from the column they are detected by the sensor. The sensor measures a change of state or difference over time, which causes the sensor baseline frequency to shift at a specific time for a specific chemical. This change

will be compared to the reference calibration and the result will be reported in concentration units, typically low ppm. The typical analysis time is 2 to 6 minutes and it can be configured to operate in a single or continuous analysis mode. It has five discrete 4-20mA outputs and RS-232C communication.

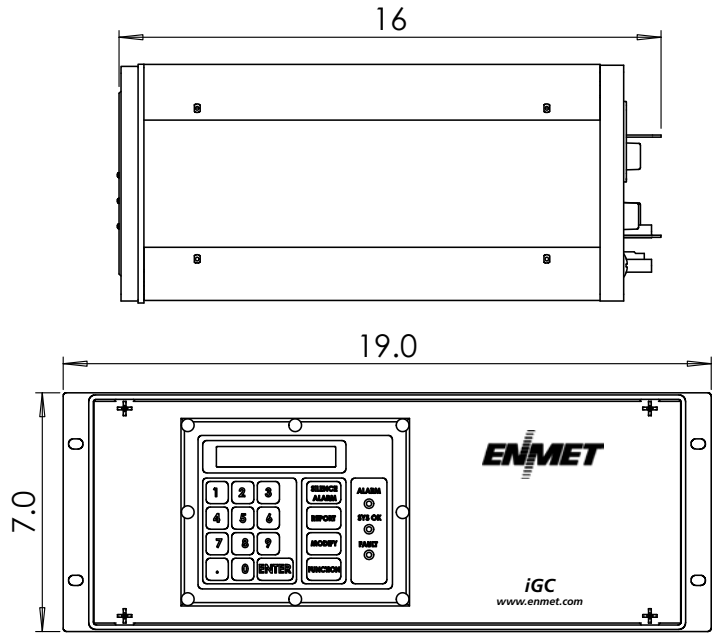
Designed for quality assurance, iGC can be configured to perform automatic calibrations using an integral calibration dilution accessory. This calibration allows the unit to dynamically create low level ppb concentrations avoiding the expense of low level calibration cylinders. This allows the user to calibrate at the trace concentration levels improving the overall accuracy and precision.

iGC is a versatile instrument that can be used as a stand-alone or integrated into SCADA or PLC control systems. It is engineered for reliability and round the clock operation offering cost effective operations and minimal user maintenance.

GENERAL SPECIFICATIONS

Alarms:	Front panel display and 4-20 mA outputs
Report Functions:	Function button on front panel send reports to PC
Communications:	Ethernet, RS-232c
Calibration Frequency:	User programmable
Carrier Gas Scrubber:	>5000 hours (6 months)
Input Power:	110/230 VAC 50-60Hz
Operating Temperature:	10° to 33°C or 50° to 90° F
Dimensions:	19.0 W x 7.0 H x 15.0 D inches 48.2 W x 17.8 H x 38.1 D cm)
Weight:	29 lbs. (13.2 kg)

DIMENSIONS



ORDERING INFORMATION

Contact ENMET sales department for a list of applications and product ordering information.

GASES

