

Air check ✓ Advantage

Benzene Monitor



Features

- ✓ Detects Benzene at PPM TLV levels
- ✓ Enhanced self-diagnostic capability decreases downtime and maintenance costs
- ✓ Smart watchdog electronics continuously controls flow and system performance
- ✓ Built-in user selectable local dual level alarms with relay output
- ✓ Local digital display
- ✓ 4-20 mA analog output

The PureAire *Air check ✓ Advantage* is a compact, extractive gas monitoring system that's ideal for continuously and remotely monitoring gas cabinets, process areas and other areas where maintenance access may be limited or undesirable. Featuring a special pyrolyzer and sample pump, this reliable hazardous gas detection system significantly reduces the labor and downtime commonly associated with gas detector maintenance and service.

The instrument's "smart" circuitry continuously monitors sensor cell status and sampling system performance. Continuous sensor cell operation is transmitted via 4-20mA signal to PureAire controllers, PLC's or remote alarm systems. Should a system error occur, the *Air check ✓ Advantage* outputs a signal to remote alarm/control systems to immediately alert control room personnel.

The heart of the system is a disposable electrochemical sensor cell linked to a compact pyrolyzer. Sample is drawn through the pyrolyzer where Benzene is thermally decomposed and converted into another gas that is more easily detected electrochemically. Unlike competitive Benzene detectors, which measure at the percent LEL levels, the *Air check ✓ Advantage* measures at the PPM level.

Low Annual Operation Cost

The PureAire **Air check ✓ Advantage** has a low annual maintenance cost. Combined with our built-in long life pyrolyzer and sample pump, the **Air check ✓ Advantage** will lower your annual operation costs. When compared to competitive gas detectors, it will pay for itself in just a few years.

Connects to DCS and PLC Controls

The **Air check ✓ Advantage** is 24VDC powered and transmits continuous gas concentration levels to any distributive control system, programmable logic controller or PureAire's proprietary multichannel controllers. The monitoring system Monitor can be operated remote up to 1,000 meters, 0.6 miles from centralized distributive control systems.

Specifications

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|-----------------------------|--|
| Sampling Method | Extractive sample draw |
| Range | 0-20ppm, (other ranges available) |
| Operating Temperature | -4 to +122F (-20 to +50C) |
| Detected gas | Benzene |
| Gas concentration indicator | Multi-function back-lit LCD digital display Displays, Gas name, ppm concentration, system fault messages |
| Signal Outputs | 4-20 mA analog output Alarm Level 1 - SPDT AC 125V, 0.3 A max. Alarm Level 2 - SPDT DC 30V, 1.0 A max resistive load Fault - SPDT Fail safe |
| Sensor Type | Low Cost disposable filtered electrochemical sensor cell |
| Sensor Life | 2 + years |
| Sampling Distance | 100 feet (30 meters) |
| Alarm Outputs | 3ea. Alarm relays: Low and High level gas alarm and System fault |
| Power Requirements | 24 VDC 2.0 amp |
| Dimensions | 10.0" W x 7.0" H x 7.0" D (254mm W x 178mm H x 178mm D) |
| Weight | 8 lbs. (3.62 kg) |
| Enclosure | Explosion proof (Polycarbonate NEMA 4) available |

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