

TELEDYNE ANALYTICAL INSTRUMENTS

Model 4060



Benzene Analyzer

- Continuous process monitoring
- Selective for Benzene
- 1 PPB LDL
- Rugged, field-proven, long-life detector (FID)

Teledyne's Model 4060 is a microprocessor based instrument ideal for the specific monitoring of trace levels of Benzene in gases such as carbon dioxide, air, and nitrogen. Designed as an on-line analyzer in a 19" rack, the Model 4060 comes with three standard ranges, the most sensitive at 100 ppb full-scale.

The selective and sensitive nature of the analyzer makes the 4060 an ideal instrument to test the quality of beverage grade carbon dioxide and other gases.

Model 4060 uses Teledyne's field proven flame ionization detector (FID) along with a separation column and a 10-port switching valve. This allows for sampling and analysis, including column back-flush, in less than 10 minutes.

The Benzene concentration displayed is interference-free from gases such as toluene, xylene, and alcohols. Also, unlike photoionization detectors which require frequent replacement, the use of a FID ensures a long, continuous operating life of many years.

Applications

- Monitoring Benzene in CO2 feed streams in the food and beverage industry
- Detecting trace levels of Benzene in ambient air
- Monitoring the purity of nitrogen, oxygen, argon and other blanketing gases

Built for Reliability and Performance

Model 4060

Specifications

Features

- User programmable ranges
- Standard auto-calibration programming
 - ideal for unmanned plant conditions
- Enhanced temperature control of sample compartment for stable, reproducible results
- Electronic Flame Out Guard circuitry
- Stainless steel sample system with flexible design to handle either a 100% H₂, H₂ / N₂, or H₂ / He support gas fuel mixture
- Easily accessible pressure and flow control devices
- Slide out chassis design provides operators with easy access to internal components
- CE marked
- X-purged configurations for hazardous area installations available
- Multiple gas calibration not required

Specifications

Ranges:	0-100 ppb, 0-1 ppm, 0-10 ppm benzene
Lowest detectable limit:	1 ppb
Accuracy:	± 2% of Full Scale at constant temperature
Response time:	90 % in less than 15 seconds, data updated every 10 minutes or less
Ambient temperature:	40 to 110° F
Sensor type:	FID, with a packed column and a 10-port sample switching valve
Alarms:	2x fully adjustable alarms
Sensitivity:	1% of full scale
Operating temp:	40 - 110°F
Max. load impedance:	4-20 mA isolated output 1000 ohms
System power requirements:	115 or 220 VAC, 50 / 60 Hz
Max. power consumption:	90 VA
System enclosure:	19" rack mounted steel enclosure 19" W x 8.75" x 15.5" D (48.3 cm x 22.2 cm x 39.4 cm)

TELEDYNE **ANALYTICAL INSTRUMENTS**

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Warranty

Instrument is warranted for 1 year against defects in material or workmanship

NOTE: Specifications and features will vary with application. The above are established and validated during design, but are not to be construed as test criteria for every product. All specifications and features are subject to change without notice.

