



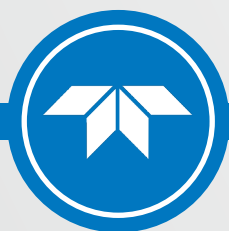
Advanced Test Equipment Corp.

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Model N904

GC-PID BTEX Analyzer



- Fast Response
- Lower Detection Limit Intuitive User
- Interface Sample Particulate Filter
- Automatic Baseline
- Dedicated Graphical Calibration Screen
- Internal AutoCal Valve Option

N Series Platform Features

-  Color Touch-Screen Graphics Display
-  Two Front Panel USB Ports
-  Modular Internal Hardware Design
-  All DC-powered Internal Components
-  Large Internal Data Storage
-  Serial and TCP/IP Ethernet Included
-  Digital and Analog Expansion Options
-  Indicator Illuminated Soft Power Switch
-  Split Fold-Down Rear Panel

The Model N904 is a near-continuous hydrocarbon gas analyzer that measures the concentrations of benzene, toluene, ethylbenzene and xylenes (BTEX) in air. The hydrocarbons are sampled onto a TENAX pre-concentrator trap, then thermally desorbed onto a gas chromatography (GC) column for separation of the peaks. Finally, the sample is measured using a photo ionization detector (PID). The instruments range and performance are tuned specifically for use in ambient air quality monitoring assessments.

The N904 is designed for simple operation and maintenance with a modular hardware and electronics architecture. A long-life stainless-steel fitted filter is used at a sample intake to effectively remove particulate matter without introducing any gas-phase measurement artifacts. Instrument operation, calibration functions, chromatogram views and data handling are all automated and controlled using the internal NumaView™ Software (NVS) interface, without the need for an external PC.

For remote connection to an N904 instrument, Teledyne API's NumaView™ Remote PC-based software provides a virtual interface, instrument controls and data downloading capability to all TAPI analyzers operating NumaView™ Software



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Detector	Photo Ionization Detector (PID)
Method	Gas chromatography with pre-concentrator
Ranges	Minimum: 0-1 ppb Maximum: 0-200 ppb
Lower Detectable Limit	30 ppb (Benzene), 100 ppt (TEX)
Cycle Time	< 15 minutes factory standard (user-programmable per method used)
Precision	< 20 ppt at 1 ppb - Benzene
Linearity	< 1% of full scale - Benzene
Drift	Zero: Auto zero baseline performed once each cycle Span (24 hr): < 1% of measured value - Benzene
Sample Flow Rate	500 cc/min \pm 10%
Carrier Gas	60 to 70 psig, N2 UHP Grade (99.999% purity), Consumption 15 cc/min
Auxiliary Air	70 psig \pm 5%, Clean Dry Air, Consumption 1 cc/actuation
Included I/O	1 x Ethernet (TCP/IP) 1 x RS232 2 x Front panel USB device ports
Optional I/O	Universal Analog Output Board includes (all user-definable): 4 x Isolated voltage outputs (5V, 10V, user-selectable) 3 x Individually isolated current outputs (4-20 mA) Digital I/O Expansion Board includes: 3 x Isolated digital input controls 5 x Isolated digital output controls (user-definable) 3 x Form C relay alarm outputs (user-definable)
Dimensions	7"H x 17"W x 23.5"D (178 x 432 x 597 mm) 34 lbs (15.5 kg)
Temperature	41° to 95°F (5° to 35°C)
Power	100V-240V, 50/60 Hz, 3A, Typical power 130W

Specifications subject to change without notice.
All specifications are based on constant conditions.

All N Series instruments include a 2-year manufacturer's warranty as well as email and phone support for the lifetime of the instrument



TELEDYNE API
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