

Model 8800 A

Total Hydrocarbon Analyzer

Baseline - MOCON, Inc.™

ANALYZER

The Model 8800 A is a member of the extraordinary Series 8800 family of gas analyzers. The Series 8800 is the candidate of choice whenever accurate, reliable hydrocarbon and VOC analysis is required. Series 8800 analyzers provide nearly limitless flexibility and offer continuous, fully automated gas analysis over a broad range of concentrations.

With an incredible dynamic range from less than 10 ppb to 50%, the Model 8800 A is the flagship model for the series. The analyzer has a generous complement of analog, digital, and logic output capabilities with room to expand. These features place the instrument well ahead of the competition in performance, automation, and configurability.

The analyzer is based on an electronically flow controlled flame ionization detector (FID) that delivers a small portion of the sample gas to the detector flame. During the combustion process, organic or hydrocarbon-based gases in the sample are ionized to a point where they can be detected by the instrument and reported as a concentration.

The Model 8800 A can be configured with internal components for a single or multipoint analysis of non-condensing gas samples. The automatic calibration feature enhances the long-term analytical stability of the instrument.

Baseline, the reference point from which all things are measured.



Applications

The Model 8800 A is designed to continuously monitor the total hydrocarbon content of non-condensing gases.

This extremely versatile instrument can be configured to support a variety of applications, such as:

- Scrubber & oxidizer efficiency
- Carbon bed breakthrough detection
- Contaminant analysis in pure/ultrapure inert gases
- Well logging
- LEL monitoring
- Vehicle emissions
- Industrial hygiene & safety monitoring
- Fenceline (perimeter) monitoring around industrial sites
- Chemical process blending

Features

- Hydrocarbon detection from sub-ppm to 50% levels
- Automatic calibration at user-defined intervals
- Electronic flow control of fuel, air, and sample provides easier, more precise flow regulation
- Virtual analog ranges programmable from 1.0 ppm - 50% full scale
- Programmable relays for alarms, events and diagnostics
- Automatic FID ignition, with automatic shut-off of fuel and combustion air
- Remote operation via RS-485, RS-232
- Electronic back-pressure regulator with sample bypass system ensures fast response
- Internal, multipoint sampling option
- Discrete, multilevel concentration & fault alarms

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INSTRUMENT CONSOLE

The Series 8800 front panel features a bright vacuum fluorescent display and keypad. All operating parameters are set via the keypad, eliminating the need for additional meters during setup or maintenance procedures.

The display identifies all sample locations and specifies the unit of concentration & reference equivalent.

Flashing alarm codes report the active alarm location, while flashing fault codes report flame, flow or temperature anomalies.

Represented by:

Specifications

SAMPLING	Internal single or multipoint modules, with or without sample pump(s) for prefiltered (≤ 0.1 microns), non-condensing samples
CALIBRATION	Programmable automatic, or manual (with internal selection valves)
DETECTOR	Flame ionization detector (FID)
MDQ	Minimum detectable quantity: 0.01 ppm (10 ppb).
RANGE	<i>Analog</i> Virtual range with software selectable endpoints provides full-scale ranges from 1.0 ppm to over 50% (as methane) <i>Digital</i> Display auto-ranges from 0.01 ppm (10 ppb) to over 50% (as methane)
REPEATABILITY	$\pm 1\%$ Full-scale response
DRIFT	$\pm 1\%$ Over 24 hours
RESPONSE TIME	< 5 Seconds to 90% of final reading
OUTPUT	<i>Analog</i> 1 (standard) to 15 analog 0-20 mA or 4-20 mA loop power supplied, isolated outputs or optional 0-1V, 0-5V or 0-10V isolated outputs. Selectable for concentration, temperature or flow (fuel, air or sample). <i>Digital</i> Standard: RS-485 output (RS-232 option).
RELAYS	5 (standard) to 15 programmable (Latched/Not, NO/NC) contact closures (1A@30V max). Selectable for: alarm thresholds or events (calibration, fault, or sample location).
ALARMS	Multilevel concentration, average concentration, and fault <i>Audible</i> Horn: Sounducer, generating 85 dB @10 cm. Selectively en-/disabled for keypad input, fault, and alarms.
PHYSICAL	Dimensions: 19.00" W x 8.75" H x 16.00" D (48.26 cm W x 22.23 cm H x 40.64 D). Nominal weight: 30 lb (13.64 kg).
CONFIGURATION	Bench-top or rack-mount (19" panel)
DISPLAY	Digital vacuum fluorescent, 20 characters x 2 lines
POWER	90-120 VAC or optional 210-230 VAC, 50/60Hz
OPERATING CONDITIONS	Temperature: 32-104 °F (0-40 °C). Humidity: 0-95%, non-condensing.
GAS SPECIFICATIONS	<i>Support</i> Hydrocarbon content: <1 ppm required. Air \approx 200 cc/min, hydrogen \approx 40 cc/min. (Options: H ₂ /N ₂ or H ₂ /He @ 100 cc/min.) <i>Connections</i> 1/4" O.D. Tube fitting connectors (1/8", 4 mm, and other options)

Options & Accessories

SAMPLERS	Internal multipoint modules, with or without sample pump(s) available in 4-point or 8-point configurations
ENCLOSURES	General purpose, Wallmount, X-purged or Z-purged
EXPANSION BOARDS	<i>Analog</i> Provides up to 10 additional programmable 4-20 mA outputs, with sample read & hold <i>Relay</i> Provides up to 10 additional programmable relays
CATALYSTS	Methanizer for low-level CO/CO ₂ analysis Oxidizer for methane only analysis
GAS GENERATORS	Zero air or hydrogen
CALIBRATION GAS	Zero and span gases for a variety of applications

P.O. Box 649, Lyons, CO 80540

In the continental United States, phone 800.321.4665, or fax 800.848.6464, toll free.
Worldwide, phone 303.823.6661 or fax 303.823.5151

• URL: www.baseline-mocon.com • E-mail: sales@baselineindustries.com

