Baseline THA™

Total Hydrocarbon Content (THC) Analyzer

PRODUCT BRIEF

TOTAL HYDROCARBON CONTENT (THC) ANALYZER

Key Benefits

- Offers continuous, fully automated THC analysis from ppb to high ppm levels. Meets all **ISBT Method 10.0** requirements.
- Includes a generous complement of analog, digital and logic output capabilities for use in highly automated applications.
- Based on a *FlowGuard* electronically controlled flame ionization detector (FID), air, hydrogen fuel and sample flow are electronically controlled with easy FID start-up and monitoring.
- Programmable relays notify operators of impurity limit excursions, fault events, and system performance diagnostics
- Electronic back-pressure regulator with controlled sample bypass system ensures fast response (< 5 seconds to 90% of final reading), yet minimizes use of calibration gas standards and reduces sample volume requirements. This is an important consideration when low volume gas sampling bag, "No-Haz" gas samples must be tested.
- Operators can perform manual calibrations whenever desired or set defined time intervals for **automatic** re-calibration activities.
- THC ppm results are continuously displayed on a bold, easy-to-read display screen.
- THC data and control conditions can be easily transmitted to a ***DSA Blackbox***™ by 4 - 20mA communication port. Airborne Labs International (*ALI*) provides fully turn-key THC packages, installation, training, validation methods documentation plus repair and maintenance support services.
- *ALI* can provide all certified span & zero gas standards in CO_2 along with optimized standard gas delivery systems.
- *ALI* can also provide compact, efficient zero grade air & maintenance-free H_2 generators for complete THC analyzer FID support.
- *ALI* provides manual or automatic gas control modules for sample source selection and periodic system performance verification or recalibration.

Typical Applications

- Gas Production Facilities
- Distribution Depot Facilities
- Bottling Plants
- Brewery Gas Testing
- QC Laboratory

BASELINE THA 9000 ANALYZER WITH AUTOCAL CAPABILITY

Detector:	Flame Ionization Detector (FID)
Range:	Low Range (0 - 2,000 ppm Methane)
	Medium Range (0 - 20,000 ppm Methane)
	High Range (0 - 100% Methane)
MDQ:	Low Range (0.01 ppm)
	Medium Range (0.10 ppm)
	High Range (10.0 ppm)
Repeatability:	+/- 1% Full-scale response
Drift:	+/- 1% over 24 hours
Response Time:	< 5 seconds to 90% final reading
Calibration:	Programmable automatic or manual
Support Gas:	Hydrogen @ 35 cc/min
	Air @ 175 cc/min (THC < 1 ppm)
Nominal Weight:	20 lbs. (9.1 kg)
Operating Temperature:	32 - 104°F (0 - 40°C)
Operating Humidity:	0 - 95% (non-condensing)
Power:	90 - 230 VAC
Relay Outputs:	5 programmable form A relays rated to 3A @ 230V
Analog Outputs:	1 programmable 0 - 20mA or 4 - 20mA isolated output
Digital Outputs:	RS-232, Ethernet

Airborne Labs International

ISO / IEC 17025:2005 Accredited Laboratory

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