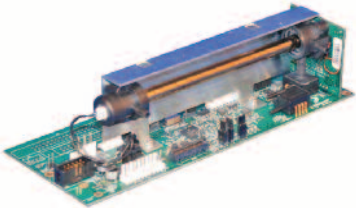


ANDROS 6512

OEM Gas Analyzer for Low-Level Carbon Monoxide Gas Detection and Monitoring



Features:

- 5 gas capable
- RS232 output
- Differential Pressure for flow monitoring
- Low Power

The Andros 6512 offers unparalleled accuracy and performance. Now taking advantage of the latest technology, Andros brings you a product with superior performance and reliability.

The Non-Dispersive InfraRed (NDIR) sensor can measure low levels of Toxic CO and Hydrocarbons (n-Hexane or Propane) and CO₂ in percent RS-232 communications with the host.

Highly Accurate Calibration

Every Andros 6512 NDIR bench is *individually calibrated* for operation from 0° C to 50° C over the entire range of specified concentrations.

The results of this intensive calibration process are stored within each system providing the most accurate analysis possible. This attention to detail provides a highly accurate factory calibration of the NDIR analyzer. Andros is so confident in our factory calibration that our customers *need never calibrate* the NDIR analyzer again.

The Andros 6512 is designed to meet and exceed performance requirements for portable or fixed leak detectors of toxics or combustibles.

High Stability: rapid warm-up

The enhanced optics and electronics of the 6512 has virtually eliminated zero drift after the initial warm up period.

Prior to this breakthrough, frequent zeroing of an analyzer was often required during the first half-hour of operation for the most sensitive measurements. Now, with just two “zeroes” during the first three minutes, the new Andros 6512 is ready to meet all accuracy specifications.

Unique Optical Architecture

The Andros 6512 optics incorporates precision beam collimating architecture.

A concentrated infrared beam generated from a proprietary emitter, passes through a precision lens into a *cleanable* or *replaceable* gold-lined sample cell that the gas of interest is flowing through.

The beam then passes into an optical assembly of highly specialized filters and a unique multi-element detector.

Comprehensive Software Architecture

The 6512 embedded Operating System (OS) software has been developed to provide our customers the means to tailor a number of operations in the 6512 without the need for a custom OS. All calculations are performed in real time for transmission to your host system.

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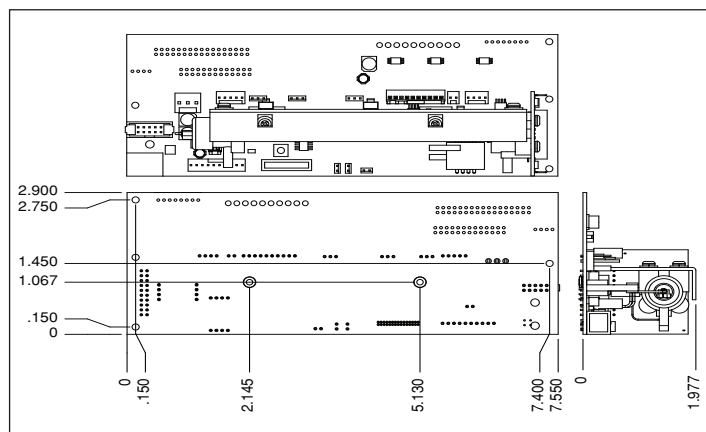
Superior Quality Performance

Andros is committed to a *Total Quality Management* philosophy. Our Richmond facility has achieved ISO 9001 and ISO 13485 certification. ISO 13485 is the Quality Management System for Medical Device Manufacturers and MDD, the European Medical Device Directives. Andros manufactures all products within these stringent requirements, ensuring the highest level of quality for all our products and services. The 6512 is RoHS compliant.

Painless Integration Path

Now it will be easy to integrate the 6512 into your fixed or portable monitors.

- Calibration of the NDIR sensor is no longer the responsibility of the OEM
- Simple and straight forward communications protocol simplifies HOST software development
- User memory provides capability for storage of customer specified data for history tracking or key information
- Low power consumption for battery operation



Response Time:	Response times are specified at a sample flow rate of 1 liter per minute through the 6512 sample cell.
Data Refresh Rate:	1 Hertz
Warm-up Time:	30 seconds ready, 3 minutes useable, 30 minutes to full performance
Operating Temperature:	0° to 70°C (32° to 158° F), accuracy not specified > 50°C
Operating Humidity:	To 95% RH (Non-condensing)
Operating Altitude:	-300 to 3,000m (-1,000 to 10,000 ft)
Host Communication:	RS232C asynchronous serial – 19,200 bps or 9,600 bps (default is 19,200 bps)
Size:	19.18cm L, 7.37cm W, 5.03cm H (7.55 x 2.90x 1.98 in)
Weight:	0.3kg (0.8lb)
Input Power:	+12 Volts DC Nominal (+9 to +16)
Power Consumption:	1.8 Watts average @ 12 VDC
Warranty:	1 year parts and labor warranty

Specifications

Measurement Method	Gas	Resolution	Measurement Range	Accuracy	Precision	Response Time
On Board NDIR (Non-Dispersive InfraRed)	HC [as either n-Hexane or Propane]	1 ppm	1 to 2,000 ppm	±4 ppm abs. or ±3% rel.	±4 ppm abs. or ±3% rel	T ₉₀ & T ₁₀ <10 seconds
			2,001 to 15,000 ppm	±5% rel.		
			5,001 ppm to 30,000	unspecified		
	Carbon Monoxide (CO)	1 ppm	1 to 100 ppm	±1% abs. or ±2% rel.	±1% abs. or ±2% rel	T ₉₀ & T ₁₀ <10 seconds
CO ₂	0.01%	0.00 to 16.00%	±0.3% abs. or ±3% rel.	±0.3% abs. or ±3% rel	T ₉₀ & T ₁₀ <10 seconds	
		16.01 to 40.00%	±5% rel.			
Electro-chemical sensors "via connector"	O ₂	0.01%	1.01 to 2.00%	±0.10% abs. or ±3% rel.	Per Mfg specs	<40 seconds from ambient to 0.1% O ₂
			2.01 to 25.00%	±5% rel.		
	NO/H ₂ S/SO ₂	1 ppm	Per Mfg specs	Per Mfg specs		

LumaSense Technologies reserves the right to change specifications and accessories without notice.

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