

## TECHNICAL SPECIFICATIONS

Repeatability	Better than $\pm 5\%$ FS ( $\pm 2\%$ with mass flow controls)
Sample Phase	Gas, LPGs (liquids, and crude oil available with additional accessories)
Analysis Time	30 seconds to 20 minutes (based upon required accuracy and sample phase)
Measurement Technique	Advanced Dry Colorimetric Sensi-Tape <sup>®</sup> with Tri-Color adaptive optics block
Stability	Automatic zero offset compensation before every analysis
Calibration	Multiple calibration curves Manual or software-assisted calibration with 960 AMF Calibration Blend Generator
Pre-Heater Zone	77°F to 1112°F (25°C to 600°C)
Main Heater Zone	77°F to 2012°F (25°C to 1100°C)
External Outputs	USB and C.I. Net Expansion Port Compressed air source for external Auto-Injectors
Software	User-friendly Microsoft Windows <sup>®</sup> -based software environment (CiSmart) on external laptop
Power Requirements	110, 120, 220 or 240 VAC, 50/60 Hz 1000 VA IEC-type C20 power entry connector
Dimensions	23" x 35" x 23" (59cm x 89cm x 59cm)
Weight	280 lbs (113 kg) approximately: weight depends on selected accessories/options

LAB AND  
PROCESS

ANALYZERS



# 2010L LABORATORY ANALYZER



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## TOTAL & MULTI-ELEMENT LAB ANALYZER

When it comes to laboratory analysis, our Model 2010L Analyzer has everything you want. This highly versatile instrument is capable of total analysis for one or more applications (refer to applications table), furthermore it can also detect elemental impurities in your gas, liquid or crude oil samples.

CI Analytics dynamic combustion system applies dry colorimetric technique and the use of our Sensi-Tape® technology to determine your targeted impurity.

A photo optical system allows the comparison of the determined concentration to a standard response curve.

Automated features such as a sample loop, direct sample injection, pyrolyzer bypass and automatic filter switching make the Model 2010L a truly multi-faceted instrument. By loading a different analytical method and switching the detection Sensi-Tape® you can change your analysis in minutes from Total Sulfur to Total Chlorides.

Every 2010L analyzer comes pre-calibrated for one impurity at the lowest detection limit available. It is also equipped with CiSmart software and a laptop computer.

## HIGHLIGHTS

- With the option to measure more than 15 different impurities, the Model 2010L equips your laboratory for tomorrow's stringent environmental and quality controls, today.
- Our extensive line of options and accessories allows you to customize the analyzer to your analytical needs.
- The use of safe, non-toxic Sensi-Tapes® in our dry colorimetric method means that no known special precautions are required in their handling and no known special regulations govern their transportation or disposal.



## ELEMENTAL APPLICATIONS

Elemental Impurity	Typical Range*
Ammonia (NH <sub>3</sub> )	30ppb
Arsine (AsH <sub>3</sub> )	1 ppb
Chlorine (Cl <sub>2</sub> )	5 ppb
Hydrogen Chloride (HCl)	200 ppb
Hydrogen Cyanide (HCN)	50 ppb
Hydrogen Fluoride (HF)	500 ppb
Hydrogen Sulfide (H <sub>2</sub> S)	1 ppb
Nitrogen Dioxide (NO <sub>2</sub> )	5 ppb
Phosgene (COCl <sub>2</sub> )	1 ppb
Phosphine (PH <sub>3</sub> )	1 ppb
Sulfur Dioxide (SO <sub>2</sub> )	20 ppb
Other	Contact us

## INCLUDED

- Total Sulfur analysis using Dry Colorimetric Detector
- Direct sample injection
- Automated sampling valve
- CI Net expansion port
- Calibration inlet
- Software for remote control of all CI Analytics accessories
- Start-Up Kit (see below)

## START-UP KIT CONTENTS

- Laptop computer with CiSmart Software
- USB cable
- IEC -type C20 power cord
- CiSmart setup disk
- Technical manual
- Quartz reaction tube
- Humidifier fill bottle
- Leak check fittings
- Optics leak test strip
- Optics verification card

## TYPICAL APPLICATIONS

Impurity	LDL (Gas,LPGs)*	LDL(Liquids)*
Total Sulfur	1 ppb	0.1 ppm
Total Chlorides	200 ppb	0.5 ppm
Other	Contact us	

\*Informational purposes only. Subject to change without prior notice. LDL can be optimized further depending on your specific application parameters.

## AVAILABLE OPTIONS

- Elemental analysis
- Digital mass flow control
- Sample pump (gas bag samples)
- Dual-range injection valve
- Alarm relays
- Replacement of laptop computer for desktop computer
- LIMS Compatibility

## AVAILABLE ACCESSORIES

- LPG Sampling Station
- Model 230 Robotic Auto Sampler
- Model 9610 Liquid Auto-Injector
- Model 960AMF Calibration Blend Generator
- Model 210 Gas & Liquids Syringe Auto Injector

This publication is not intended to form the basis of a contract. CI Analytics reserves the right to amend the design and specifications of instruments without prior notice.

