

TECHNICAL SPECIFICATIONS

No. of sample streams	1 std (with a possibility of up to 4 streams)
Repeatability	± 2% of full scale value, ± 5% FS without Electronic Flow Control option
Sample Phase	Gas (std) or LPG (Optional)
Analysis Time	2 to 20 minutes, dependent upon concentration sample phase and target concentration
Measurement Technique	Dry colorimetry Sensi-Tape® detection with solid state optics source
Humidification Technique	Precise humidity control at the detector for superior reproducibility (application-specific)
Stability	Automatic re-zero compensation before each analysis
Calibration	Dynamic calibration is user-generated upon installation and at user-defined intervals (with optional calibration inlet or built-in Cali-Blend Generator)
Signal Outputs	One (1) Isolated 4-20 mA analog output per stream (Isolation exceeds 1500 VAC, maximum load impedance: 800)
Alarm / Status Relays	Eight (8) Alarm / Status Relays; Low Level Concentration; High Level Concentration Instrument Fault (indicates off-line); Maintenance Fault (Low Sensi-Tape® Supply) Monitor Mode (Analysis in Progress or Idle Mode); Dynamic Calibration
Data System	Complete touch-screen computer with Windows® Results displayed graphically in engineering units
Software	User-friendly Microsoft Windows® -based software environment (CiSmart)
Power Requirements	120 or 240 VAC, 50/60 Hz, 300 VA
Operating Temperature	32°F to 104°F (0°C to 40°C) Other ranges may be accommodated with optional enclosure heater/cooler temperature control
Hazardous Location Classification	ATEX Zone 1 or 2 (optional); Class 1 Div 2, B,C,D
Hazardous Location Protection Methods	Purged and pressurized enclosure
Dimensions	45 (H) x 33" (W) x 18" (D) (114cm x 114cm x 46cm) NOTE: Additional 16" required on right side of the analyzer for sample cabinet door access
Weight	225 lbs (102 kg) approximately: weight depends on selected accessories/options

LAB AND
PROCESS

ANALYZERS

Ci ANALYTICS
LOW DETECTION | HIGH CONFIDENCE

9710 PROCESS ANALYZER



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ELEMENTAL & MULTI-STREAM PROCESS ANALYZER

Combining our proprietary dry colorimetry method and user-friendly CiSmart Software, CI Analytics' 9710 Multi-Purpose process analyzer provides the solution to your analytical needs.

Our model 9710 is designed for online use in industrial settings and is capable of detecting more than 11 different impurities such as Hydrogen Sulfide, Arsine and Ammonia in your process streams.

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. The results from this process are accurate with a repeatability of ±2% FS or better with available mass flow controls.

All 9710 analyzers come pre-calibrated with your choice of one or more calibration curves. Equipped with CiSmart Software and a built-in touch screen interface, the 9710 offers you today's best option in process control.



Available Options for the 9710

- ATEX (Zone 1 or Zone 2)
- Built-In Cali-Blend Generator
- Calibration Inlet
- Enclosure Cooler with thermostat
- Enclosure Heater with thermostat
- Fast Loop Particulate filter
- High-Pressure Sample (inlet)
- MODBUS-RTU interface (RS-485)
- Ethernet Communication interface
- Class I Div1/Div 2, Group B,C,D
- Multiple-Stream capability (up to 4)
- Digital Flow Control
- Sensi-Tape® Saver (stacking)
- LP Extended Tape
- NEMA 4X IP66
- 316 Stainless Steel Enclosures
- Stand Alone Sample Conditioning Cabinet
- Compact Tape

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.

TYPICAL APPLICATIONS

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

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

HIGHLIGHTS

- With the capability to measure up to 4 different sample streams, the 9710 makes the chemical analysis of multiple streams straightforward and easy.
- Options such as a built-in Cali-Blend Generator, enclosure cooler/ heater allow you to customize the 9710 to meet your needs.
- Use of safe, non-toxic Sensi-Tapes® in our dry colorimetry method means that no special precautions are required in handling. No Known special regulations govern transportation or disposal.

