

THE ELEMENTAL & MULTI-STREAM PROCESS ANALYZER MODEL 9710

Combining our proprietary dry colorimetric method and user-friendly CiSmart Software, C.I. Analytics' 9710 Multi-Purpose Process Analyzer provides the solution to your analytical needs.

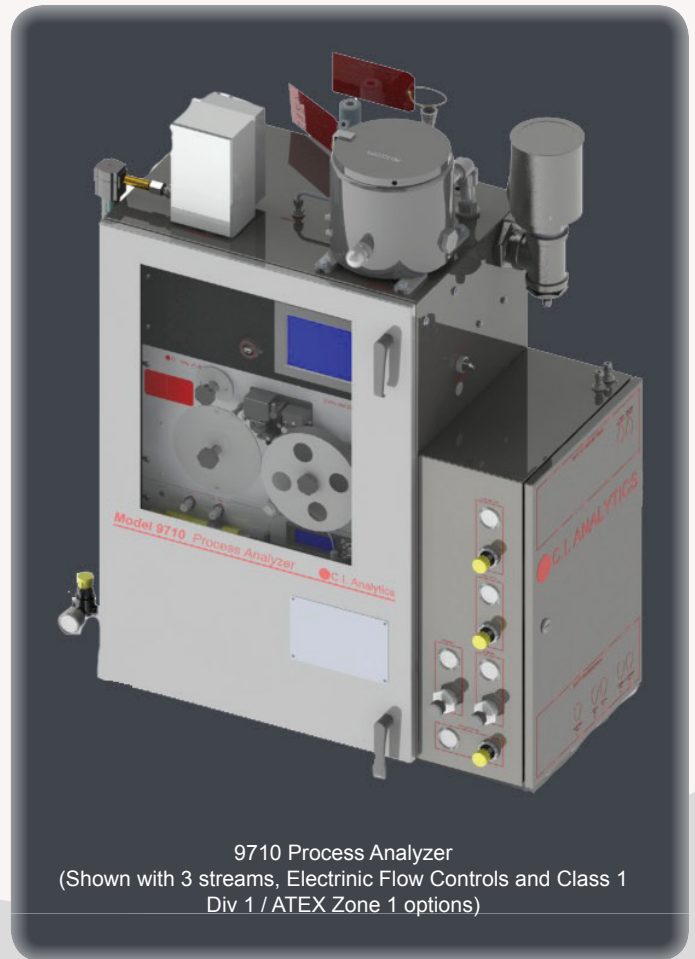
Our 9710 model is designed for online use in industrial settings and is capable of detecting more than 11 different impurities such as H₂S, Arsine and Ammonia in your process streams.

With C.I. Analytics' Dry Colorimetric Detection System, the target impurity is detectable by a special paper tape which changes color in direct proportion to the impurity concentration. A photo-optical system then compares the tape color to a standard response curve. The results from this process are accurate with a repeatability of $\pm 2\%$ or better.

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 in process control.

TYPICAL APPLICATIONS

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



9710 Process Analyzer
(Shown with 3 streams, Electronic Flow Controls and Class 1 Div 1 / ATEX Zone 1 options)

HIGHLIGHTS

- With the capability to measure up to 3 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 and stainless steel enclosures allow you to customize the 9710 to meet your needs.
- Use of safe, non-toxic Sensi-Tapes® in our dry colorimetric methods means that no special precautions are required in handling. No special regulations govern transportation or disposal.



CI ANALYTICS

We make one commitment ...
Excellence!

MODEL 9710 TECHNICAL SPECIFICATIONS

No. of sample streams	1 std (with a possibility of up to 3 streams)
Repeatability	± 2% of full scale value, ± 5% without Electronic Flow Control option
Sample Phase	Gas (std) or LPG
Analysis Time	2 to 20 minutes, dependent upon concentration and sample phase
Measurement Technique	Dry colorimetric Sensi-Tapes® detection with solid state optics source
Humidification Technique	Precise humidity control at the detector for superior reproducibility (application-specific)
Stability	Automatic re-zero compensations 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 Ω)
Alarm / Status Relays	Eight (8) Alarm / Status Relays” <ul style="list-style-type: none"> • Low Level Concentration • High Level Concentration • Instrument Fault (indicate off-line) • Maintenance Fault (Low Sensi-Tapes® Supply) • Monitor Mode (Analysis in progress or Idle Mode) • Dynamic Calibration • Regeneration in progress (optional) • 4-20mA Date Ready
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	NEC Class I Div 1 / Div 2 Group B, C, D or ATEX Zone 1 / Zone 2 (optional)
Hazardous Location Protection Methods	Purged and pressurized Enclosure
Enclosure IP Rating	IP67, NEMA 4 (NEMA 4X optional)
Dimensions (Class 1 Div / ATEX Zone 1)	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 depend on selected accessories/ options

OPTIONS FOR THE 9710

- Atex (Zone 1 or Zone 2)
- Built-in Cali-Blend Generator
- Portable 960P 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
- Multiple-Stream capability (up to 3)
- Digital F Glow Control
- Sensi-Tape® Saver (stacking)
- LP Extended Tape
- NEMA 4X Rating
- 316 Stainless Steel Enclosures
- Stand Alone Sample Conditioning Cabinet
- Compact Tape Detector
- Additional Elemental detector (up to 3)



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