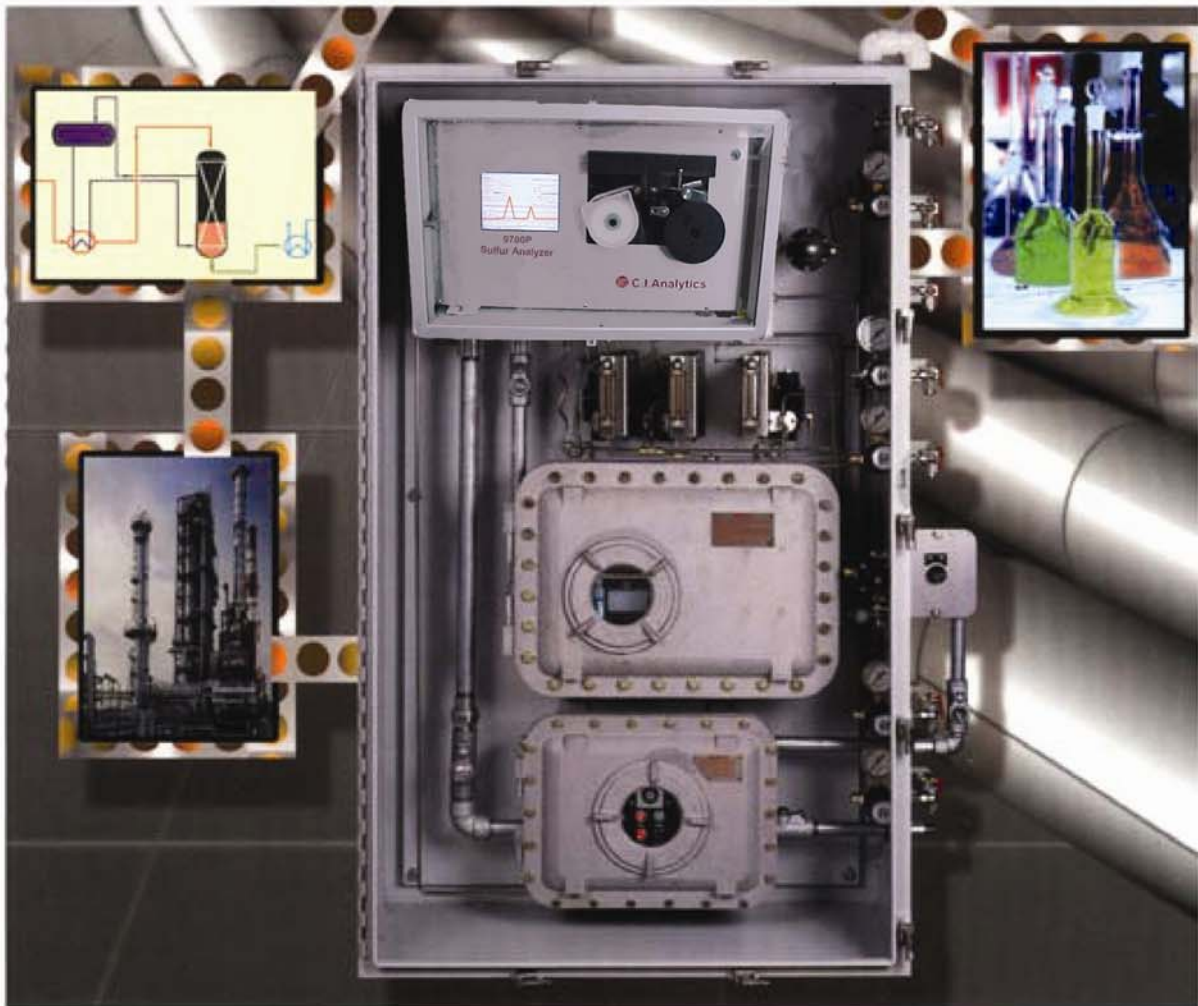




C.I. Analytics

Series 9700

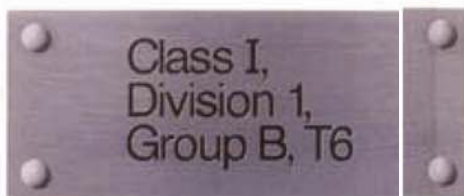


C.I. Analytics

The Model 9700 Total Organic Sulfur or Total Organic Chloride



- Protect expensive catalyst chemicals**
- Ensure chloride removal processes are effective**
- Accurately predict life of scrubber systems**
- Verify quality of raw inputs and end products**

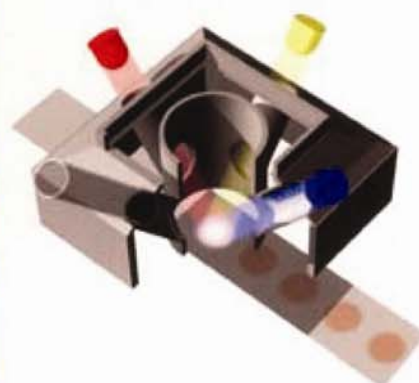


Safe for use in Class I, Division 1, Group B hazardous area classifications, the 9700P is an on-line instrument which performs total chloride analyses with unmatched repeatability. The Model 9700P comes with a full, touch-screen computer and Windows 98 operating system.

The 9700P accepts high-pressure hydrocarbon process streams.

Automatic regeneration extends reaction tube life by oxidizing carbon coke formations to CO₂, thereby reducing the frequency of tube replacement and carry-over between streams is virtually non-existent when connected to stream-switching devices.

Interface with a DCS to supply critical concentration data, as well as control certain aspects of instrument operation.



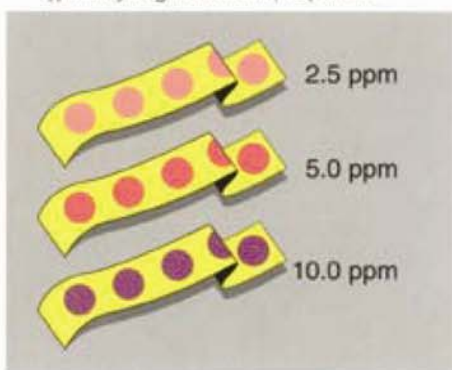
with Model 9700

...the world's first dependable, continuous, on-line analyzer for detecting total organic chloride content in any light hydrocarbon process stream...

- Detects to ppb level
- Analysis is unaffected by non-halogen compounds
- Safe for use in Class I, Division 1, Group B hazardous atmospheres
- Any light hydrocarbon process stream
- Analysis times in minutes
- Dependable, field-proven Chemcassette® detection system includes the following benefits:
 - single photodiode and LED optics system comprise a solid state detector
 - a portion of each and every Chemcassette is tested to verify performance
 - each step in the manufacturing and testing process is fully documented and traceable to NIST standards through serial number
 - standards of performance meet NIOSH recommendations
 - meets U.S. Nuclear Regulatory Commission audit requirements
 - lasts for as long as one month
 - our blanket order process ensures that fresh Chemcassettes are available at your facility

LED optics source and single photodiode design requires no adjustment... specially formulated Chemcassette darkens in direct proportion to target gas concentration.

Typical Hydrogen Chloride (HCl) Stains



Don't take a chance with paper tapes which aren't produced this way and don't offer these benefits of documented traceability and testing, performance reliability, specificity, sensitivity and freshness!

Chemcassettes fit a variety of monitors - from personal to portable to area gas detectors lasting up to one month.



Typical applications:

- aromatics
- benzene
- butane
- cumene
- diesel fuel
- ethane
- ethylene
- fuel gas
- gasoline
- nitrogen
- inert gases
- isomerization feedstocks
- kerosene
- LPG
- MTBE
- naphtha
- natural gas
- octane
- olefins
- paraffinic hydrocarbons
- propane
- propylene
- refinery gases
- reformer feedstocks
- styrene
- toluene
- xylene

The 9700 Series Analyzers have been **designed with your application requirements in mind**. For example, they solve trace contaminant detection problems in the following areas:

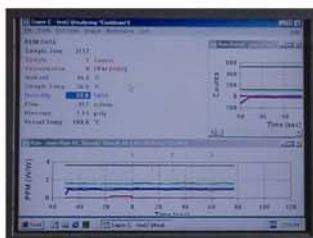
- protecting expensive noble metal catalysts
- identifying impurities in feedstocks
- assessing product quality
- testing for scrubber breakthrough
- checking product specifications
- prevention of corrosion and embrittlement of containment vessels and pipelines
- odorant analysis
- documenting regulatory and contractual compliance

We can provide the engineering assistance necessary to meet your unique analysis needs....

NORTH AMERICA

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Model 9700P operates with a full, touch-screen computer loaded with Windows 98 and proprietary software.

