

Liquid Process Analyzers

Refinery - Petrochemical - Waste Water

GALVANIC
APPLIED SCIENCES



AccuSeries-LPA

Titration, ISE, Colorimeter

UNIQUE FEATURES

- ± 2 ppb Sensitivity
- Div. 2 / Zone 2 (No Purge)
- Multi-Parameter / Stream
- Custom Wetted Parts
- Handles 70°C Samples

KEY APPLICATIONS

- Amine Sweetening
- Sour Water Stripper
- Hardness in Brine

PARAMETERS

- Acid # / Base #
- Acid Gas Loading
- Acidity
- Alkalinity
- Aluminium
- Amine Strength



Tytronics

FPA 4100



FPA 4100

UV - VIS Photometer

UNIQUE FEATURES

- Multi-Stream Up to 8
- IECEx Zone 1 (No Purge)
- 200°C / 300 psi Samples
- Accessible External Cell
- Auto Zero / Calibration

KEY APPLICATIONS

- H₂S / SO₂ in Gas
- Waste Water Deodorizing
- Oil in Water



MONITEK



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Monitek

Turbidity - TSS - Color

UNIQUE FEATURES

- Powerful Cleaning Jets
- Div. 1 / Zone 1 Sensors
- 1,400 psi / ≤ 100 m Cable
- Custom Connections / Units
- Submersible or Flanged

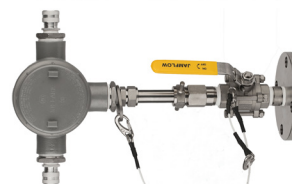
KEY APPLICATIONS

- NGL Saybolt Color
- Polymer Dosing Control
- Chor-Alkali Brine Clarity



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Monitek™ Ultrasonic
Oil-in-Water & TSS Monitor



Monitek UltraSonic

Acoustic Oil in Water / TSS

UNIQUE FEATURES

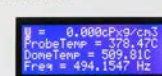
- Handles Coatings on Sensor
- Zero Downtime Sensor Removal
- Div. 1 / Zone 1 / CRN Sensors
- ≤ 100 m Cable / Custom Length
- 150°C / 260 psi Samples

KEY APPLICATIONS

- Filter Break-Through
- Oil in Water
- TSS in Edible Oil Processing



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VS-7000
VISCOMETER



ViscoSite

Viscometer

UNIQUE FEATURES

- No Moving Parts
- Div. 1 / Zone 1 Sensor
- 400°C / 2,500 psi
- Anti-Stick Teflon Coating
- Sensor Shield Protection

KEY APPLICATIONS

- Roofing Asphalt
- Ceramic Cement
- Refinery Vis-Breaking

- Ammonia
- Ammonium
- Barium
- Bicarbonate
- Boron
- Bromine

- Cadmium
- Calcium
- Carbonate
- Caustic
- Chlorate
- Chloride

- Cyanide
- FFA #
- Fluoride
- Hardness
- Hydrazine
- Hypochlorite

- Iron
- Magnesium
- Manganese
- Mercaptans
- Molybdenum
- Nickel

- Nitrate
- Nitrite
- Oil in Water
- Peroxide
- Phenol
- Phosphate

- Potassium
- Silica
- Sodium
- Sulfate
- Sulfide
- Sulfite

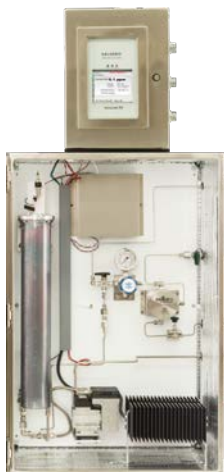
- Suspended Solids
- T.M.A.H.
- T.B.C.
- Thiocyanate
- Thiosulfate
- Thiourea

- Tin
- Turbidity
- Urea
- Viscosity
- Zinc
- ... And More!

Gas Process Analyzers

Natural Gas - Refinery - Petrochemical

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AccuLase-GPA
Tunable Diode Laser

UNIQUE FEATURES

- 0.15 ppm Sensitivity
- No Scrubber
- Up to 4 Streams
- No Consumables
- Low Maintenance

KEY APPLICATIONS

- Refinery Fuel Gas
- Custody Transfer
- Pipeline / Processing

PARAMETERS

- **Hydrogen Sulfide**



ProTech903
Tape

UNIQUE FEATURES

- ± 5 ppb Sensitivity
- Predictive Alarm
- Extended-Life Tape
- Combined H₂S / TS
- No Interferences

KEY APPLICATIONS

- Catalyst Protection
- Refinery Flare
- NGL Acids

PARAMETERS

- **Hydrogen Sulfide**
- **Total Sulfur**
- **Arsine**
- **Phosphine**
- **Phosgene**
- **Chlorine**



Brimstone
Spectrophotometer

UNIQUE FEATURES

- < 10 Sec. Response
- No Interferences
- Anti-Clogging Probe
- No Calibration Gas
- Double Air Demand

KEY APPLICATIONS

- Tail Gas Air Demand
- SRU Sulfur Pit
- SRU Acid Gas Feed

PARAMETERS

- **Hydrogen Sulfide**
- **Sulfur Dioxide**
- **Carbonyl Sulfide**
- **Carbon Disulfide**



AccuChrome GC
TCD

UNIQUE FEATURES

- ± 0.25 Btu Accuracy
- 4 Minutes Analysis
- Up to 8 Streams
- CSA Class 1 Div. 1
- No °C Drift Issues

KEY APPLICATIONS

- Refinery Flare
- N.G. Pipeline
- Custody Transfer

PARAMETERS

- **Btu; Heating Value**
- **C7+; C8+**
- **Ethane, Methane**
- **Propane; H₂; N₂**
- **H₂S; CO₂; CO; O₂**
- **Specific Gravity**
- **Wobbe; n-Butane**
- **iso-Pentane**



SulfurChrome GC
Chemiluminescence

UNIQUE FEATURES

- ppb to % Response
- No Known Interference
- 1 Cal Gas for All Sulfurs
- Not Affected by Upsets
- Up to 8 Streams

KEY APPLICATIONS

- Odorant Monitoring
- N.G. Pipeline
- N.G. Custody Transfer

PARAMETERS

- **Sulfides**
- **Disulfides**
- **Mercaptans**
- **Thiophenes**
- **Total Sulfur**
- **Others on Request**



Gas Micro
EVC - EPR

UNIQUE FEATURES

- $\pm 0.05\%$ Accuracy
- CSA -40° to +65°C
- 12 Year Calibration
- 8 Year Data Back-Up
- 1 Wide-Range Sensor

KEY APPLICATIONS

- N.G. Distribution
- Custody Transfer
- Energy Management

PARAMETERS

- **Volume**
- **Pressure**
- **Temperature**