



## Complete Analytical Solutions

### ANALYZER METHODS

Non-Dispersive Infrared (NDIR)  
CO, CO<sub>2</sub>, H<sub>2</sub>O, CH<sub>4</sub>  
Zirconium Oxide & Paramagnetic (O<sub>2</sub>)  
Non-Dispersive UV-VIS  
Tunable Diode Laser (NH<sub>3</sub>, HCL, O<sub>2</sub>, CO, CO<sub>2</sub>, HI)  
Gas Chromatography (TCD, FID, FPD)  
IR Temperature  
Air Flow Pressure Measurement  
Electrochemical Sensors  
UV Fluorescence  
X-ray Transmission

### WATER QUALITY

pH/ORP  
Conductivity  
Dissolved Oxygen  
Total Suspended Solids  
Interface Level  
On-Line BOD, TOC, COD  
Oil In Water  
Free, Combined & Total Chlorine  
Chlorine Dioxide; Dissolved Sulfide  
Portable Instruments  
Turbidity  
Toxicity

### MOISTURE

Quartz Crystal  
Chilled Mirror Hydrometers  
Electrolytic  
TDL

### REMOTE MONITORING

Server Rooms  
Remote Process Sites  
Environmental Monitoring  
Critical Equipment

### GAS TURBINES

Thermocouples  
Custom Cables Harness  
Flame Scanners  
Pressure Transmitters  
BTU/Wobbe Index

### SULPHUR MEASUREMENTS

Tail Gas Analyzers  
(H<sub>2</sub>S, SO<sub>2</sub>, COS, CS<sub>2</sub>, S<sub>2</sub>)  
H<sub>2</sub>S Analyzers (1000 ppm - 100%)  
H<sub>2</sub>S Analyzers (5 ppm—1000 ppm)  
Total Sulphur - Gas/Liquids  
Flare Gas

### ANALYZER ACCESSORIES

Coalescing Filters  
Fast Loop Filters  
Membrane Filters  
Regulators Pressure  
Regulators Back Pressure  
Gas/Liquids Separation  
Analyzer Enclosures  
Analyzer Shelters

### PHYSICAL PROPERTIES

Vapor Pressure  
RVP  
Flash Point  
Cloud Point  
Viscosity  
Density

### VAPOR RECOVERY/FLARE

O<sub>2</sub> (ppm - %)  
H<sub>2</sub>S (ppm - %)  
CO<sub>2</sub> (ppm - %)  
Total Sulphur (ppm - %)

### TECHNICAL SERVICES

Sample Conditioning Systems c/w CRN  
Analyzer Enclosures  
Complete Turn Key Systems c/w CRN  
Analyzer Repair  
Start-up and Commissioning  
Classroom & On-site Training

### CEM SYSTEMS

Stack Flow Monitors  
Laser Dustmeter / Opacity  
Wet Extractive Systems (SO<sub>2</sub>, NO<sub>x</sub>, O<sub>2</sub>)  
In-situ System (NH<sub>3</sub>, HCL, O<sub>2</sub>, CO<sub>2</sub>)  
Dry Extractive Systems  
(SO<sub>2</sub>, NO<sub>x</sub>, CO, O<sub>2</sub>, CO<sub>2</sub>)  
Gas Chromatographs  
Data Acquisition Systems  
QA/QC Manual

### COMBUSTION CONTROL

O<sub>2</sub> & Combustible  
Wobbe Index  
Air Flow

### POWER QUALITY

Fault Recorders  
Revenue Meters  
Power Quality Monitors  
Circuit Breaker Tester  
Sequence of Events Power Recorder

### GAS QUALITY

H<sub>2</sub>S (ppm - %)  
H<sub>2</sub>O (ppm - %)  
CO<sub>2</sub> (ppm - %)  
Total Sulphur (ppm - %)  
Hydrocarbon Dewpoint  
BTU/Wobbe Index



Certificate of Authorization – ABSA



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**Exclusive distributor for the following manufacturers:**

**AMETEK**

**PROCESS & ANALYTICAL INSTRUMENTS**

Chandler | Power | Thermox | Western Research | Asoma  
Moisture --- UV / Photometric

**WESTERN RESEARCH DIVISION**

Sulphur Recovery Process \* Hydrocarbon DewPoint  
Air Demand / Tail Gas --- CEM Systems

**THERMOX INSTRUMENTS DIVISION**

Oxygen & Combustibles --- Flue Gas \* Combustion Efficiency

**LAND INSTRUMENTS INTERNATIONAL**

Dust & Opacity Monitors \* Portable Gas & Emission Analyzers  
Combustion Efficiency \* Sulphuric Acid DewPoint

**CHANDLER INSTRUMENTS DIVISION**

Manual DewPoint Testers \* Portable & On-line Moisture  
Ranarex Gavitometers \* Liquid Densitometers

**POWER INSTRUMENTS DIVISION**

Panalarm Annunciators, Flame Scanners \* Gas Turbine Thermocouple/Cable  
Arrays \* Gulton Statham Transmitters \* Mud Density Transducers  
Scientific Columbus \* Rochester Instruments

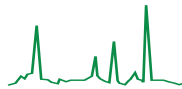
**AMETEK - ASOMA INSTRUMENTS**

On-line analysis of sulfur in highly viscous hydrocarbons,  
Crude and Residual Oil using XRT (X-ray Transmission)



**WATER QUALITY MONITORS:**

On-line PH ORP \* Auto Clean \* Dissolved Ozone Fluoride \* De-chlorination  
Turbidity Particle Counter \* Particle Alarm Free \* Dissolved Sulphide  
Combined & Total Chlorine \* Chlorine Dioxide



**O'BRIEN analytical**

ELECTRICALLY HEATED SAMPLE LINES\* STACKPAK CEM  
SAMPLE LINE ELECTRO POLISH HIGH PURITY TUBING



**Eastern Instruments**

**AIR & GAS FLOW MEASUREMENT**

**VAPOUR PRESSURE**

**ON LINE CALORIMETER**

**SIEMENS**

**PROCESS ANALYTICS**

Maxum | UltraMat | OxyMat | LDS 6 | Sitrans SL

**MAXUM**

Gas Chromatography

**ULTRAMAT**

NDIR (CO, CO<sub>2</sub>, NO<sub>x</sub>, Hydrocarbons, Total Hydrocarbons (THC))

**OXYMAT**

Paramagnetic (O<sub>2</sub>)

**LDS 6**

Tunable Diode Laser TDL

**SITRANS SL**

TDL (O<sub>2</sub>, NH<sub>3</sub>, HCL, HF, CO, CO<sub>2</sub>)



Total Organic Carbon (TOC) Oil in Water  
\* Chemical Oxygen Demand (COD) Toxicity \*

**GO REGULATOR**  
REGULATORS:

Pressure Reducing \* Steam / Electric Heated --- Vapourizing  
\* Back Pressure Cylinder \* Sub-atmospheric

**SENSAPHONE®**  
REMOTE MONITORING SOLUTIONS

**AUTODIALERS: SCADA**

Satellite & Remote Monitoring / Environmental

**GAS AND LIQUID SEPARATORS**

**VISCOSITY DENSITY ANALYZERS**

Lab, Portable and On-line Process

**TOTAL SULPHUR GAS/LIQUIDS**

**HYDROGEN MEASUREMENT**