

## Process Analyzer Services

Contech offers turnkey process analyzer systems including project management, engineering and design, shop fabrication, and field installation for most petroleum and chemical, utility, and environmental applications.

### Engineering And Design

Contech offers detailed analyzer system engineering and design services including site survey, system definition, budgetary cost estimates, analyzer selection, purchase specifications, and complete engineering drawing packages. Contech's detailed engineering and design services typically include:

- Analyzer selection
- Electrical area classification
- Cycle times
- Calibration methods
- Continuous Emissions Monitoring
- Failure prediction and detection
- System reliability studies
- System programming
- Data Hiway Systems
- Analyzer locations
- Bubble point calculations
- Dew point calculations
- Sample tap and return locations
- Transport lag times
- Sample Transport Systems
- Remote preconditioning
- Heat tracing
- Materials selection
- Vapor Sample Systems
- Liquid Sample Systems
- Multistream Sample Systems
- Sample coolers
- Sample vaporization
- Sample pumps
- Auto validation and calibration
- Leak prevention and detection
- Component maintainability
- Test and calibration systems
- Gas bottles and racks
- Grab sample arrangements
- Housing, racks, and enclosures
- HVAC for hazardous areas
- Utilities
- Power and lighting
- Safety Systems (PLC and Relay Based)
- Pressurization per NFPA 496
- Complete system documentation
- Analyzer Data Books
- Training
- Maintenance
- Spare parts
- Vendor support

### Integration

Contech's specialized analyzer systems craftsmen fabricate (in our La Porte, Texas shop and in the field), mount, tube, pipe, wire, and test turn-key process analyzer systems including:

- Analyzer houses
- Analyzer enclosures
- Analyzer racks
- Sample conditioning systems
- Sample plates and boxes
- Steam or Electric Tracing
- Insulation
- Instrument air and utility piping
- HVAC for hazardous locations
- Lighting
- Power and signal junction boxes
- Component tags
- Sample probes
- Bottle racks
- Remote preconditioning assemblies
- Special brackets and supports
- Headers, vents, and drains
- Custom tube bending
- Power distribution
- Conduit and wire
- Wire tags
- Piping and tubing lead testing
- Megger testing
- Mechanical function testing
- Wiring continuity testing
- Utility systems functional testing
- Analyzer functional testing
- Software programming
- Integrated system testing
- "Punchlist" generation and follow up
- Acceptance testing documentation
- Local or export packing
- Loading and shipping

### Fabricated Systems

In addition to turnkey analyzer systems Contech's La Porte shop offers the following fabricated systems completely tested and ready for field installation:

- Remote Instrument Enclosures (RIEs)
- PLC or DCS System Panels
- Motor Control Center Buildings
- General purpose or hazardous location panels
- UL508A General Purpose or Hazloc Panels
- Pneumatic control panels

### Supported Analyzers

Contech's process analyzer systems typically utilize one or more of the following types of on-line process analyzers:

- Gas and liquid chromatographs
- Infrared analyzers
- Ultraviolet analyzers
- Combustibles monitors
- Thermal conductivity analyzers
- Oil in water analyzers
- PH/ORP meters
- Conductivity meters
- Chlorine analyzers
- Specific gravity analyzers
- Density analyzers
- Stack/Particulate monitors
- NOx and SOx analyzers
- Flame ionization detectors
- Flame photometric detectors
- Mass spectrometers
- Near infrared analyzers
- Oxygen analyzers
- TC/TOC/TIC carbon analyzers
- Hydrocarbon analyzers
- Moisture in gas/liquids/solids
- Humidity and dew point monitors
- Colorimeters
- Dissolved oxygen analyzers
- Ion selective electrodes
- Refractometers
- Viscosity analyzers
- Nitrogen analyzers
- BOD, COD, TOD analyzers
- Turbidity analyzers
- Tunable diode laser analyzers

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