

# Trusted Partner for Process Control Instrumentation Solutions, in the Oil & Gas Industry

Measurement to Monitoring of Processes in Upstream, Midstream & Downstream Applications

## Process Analytics & Product Solutions :

Stack & Heater Analyzers | Process Analyzers including Mass Spectrometer | Physical Property Analyzers / Blending Packages | Gas Chromatographs | Photometric Analyzers | Steam & Water Analysis System Package | Integrated Analyzer package system with Shelter | HVAC, Split and Window Air Conditioning units for installation in hazardous and non-hazardous areas | Specialized Analytical solutions for FCCU, SRU, HDPE, CRACKER, VCM, MEG PP, Butadiene, H<sub>2</sub>, NH<sub>3</sub>, plants based on Licensor philosophy.

## Product Quality / Blending Solutions :

Analyzer packages for blending of motor fuels (MS & HSD) consisting of NIR, total Sulphur, physical property, viscosity and density measurement. Analyzers delivered with sampling probes, sample conditioning, validation, and sample recovery systems.

## Continuous Emission Monitoring Systems (CEMS) :

- ⊕ Measurement & Monitoring of Stack Emission gases SO<sub>x</sub>, NO<sub>x</sub>, CO, CO<sub>2</sub>, NH<sub>3</sub>, HCL, HF, THC, Hg
- ⊕ Dust Concentration & Opacity monitor Analyzers

## Ambient Air Quality Monitoring Systems (AAQMS) :

- ⊕ SO<sub>2</sub>, H<sub>2</sub>S, NO<sub>x</sub>, NH<sub>3</sub>, CO, CO<sub>2</sub>, O<sub>3</sub>, HC, BTX, PM10, PM2.5
- ⊕ Sampling and SCADA for Pollution Monitoring & Reporting
- ⊕ Report Generation on Hourly/ Weekly/ Monthly/ Yearly basis

## Flame & Gas Detection Systems :

- ⊕ Toxic, Flammable, Hazardous Gasses, Point IR Gas Detectors, Catalytic, Electro-chemical & Flame Detectors etc.
- ⊕ Detection Systems with/ without SIL certified controlling & PLC conforming to IEC 61508
- ⊕ SIL2 certified Hybrid sensors & SIL3 certified controllers

## Steam Engineering Solutions :

- ⊕ PRDS (Pressure Reduction & Desuperheating)
- ⊕ De-Superheaters / Attemperators for Steam
- ⊕ Turbine By-pass valves HP/LP Valves for Steam
- ⊕ Control Valves for HP/ LP Steam and Water

## Terminal Automation :

- ⊕ Installation & Commissioning of fully automated fuel loading and unloading bays of the gantry, with Single &/or Dual Product loading arms
- ⊕ Integrated hardware & system software components for storage, distribution and management of multiple products at the terminals & depots, via tank truck, tank wagon loading & unloading
- ⊕ Flow Metering by PD Meters/ Turbine/ Coriolis Mass/ Ultrasonic Flow Meters
- ⊕ Batch Controllers conforming to OIML R117, capable of simultaneous additive Injection and Ethanol Blending with Ratio Control
- ⊕ Tank Farm Management with Primary/ Secondary Radar Gauges, SIL2 certified Overspill protection switches, Inventory & Stock Management
- ⊕ Security Surveillance, CCTV & Access Control Systems
- ⊕ Safety Systems up to SIL3 PLC's, Gas Detection Systems

## Metering and Measurement Solutions :

- ⊕ Displacer Level Transmitters for Level, Interface & Density
- ⊕ Ultrasonic High Temperature Flow Meters for Process Lines, Thermic Fluids
- ⊕ Ultrasonic Gas Flow Meters for Flare Gas Measurement
- ⊕ Coriolis Flow Meters for various Process Flow Measurement
- ⊕ Nucleonic & Admittance Level Measurement in Reactors, Oil Separators etc.
- ⊕ Temperature RTD's, T/C, Multi-point Elements, Thermo-wells & Transmitters
- ⊕ Gas Regulators for Air/ Natural Gas : Self acting Direct & Pilot Operated

## FLOW Metering Skids for Liquids & Natural Gas :

- ⊕ Conditioning & Metering Skids for Natural Gas Application
- ⊕ Liquid Metering Skids for Hydrocarbons

### Chemtrols Industries Pvt. Limited,

Amar Hill, Saki Vihar Road, Powai, Mumbai - 400 072, INDIA

Board : +91 (22) 67 15 12 00 | Fax : +91 (22) 67 15 14 05

E-mail : [chemtrols@chemtrols.com](mailto:chemtrols@chemtrols.com) | Web: [www.chemtrols.com](http://www.chemtrols.com)