



# AUTOMATION

Industrial Automation along with Process Instrumentation helps today's Industries to increase the Product quality, Reliability, and Efficiency resulting in a better and a faster product. Automated systems make the environment much safer and decrease the dependency on the wide spread labor problems.

ICS has been providing its clients with DCS and PLC / SCADA based process solutions since last 13 plus years. Our expertise includes Automation from Warehouse to Warehouse and from conceptualization to commissioning / Validation execute all stages from initiation to finalization. This includes Design of the system, Procurement of the Hardware/software, Developing the right logic, Field installation of Instruments and the Control System, Laying of the cables / cable trays, Terminations, Commissioning, Validation and final training to the client team. Our systems are designed and validated to comply the requirements of 21 CFR Part 11 regulations and meet the standards set by ISA, GAMP 5 and IEC.

ICS Projects are well supported with the prompt and quality after sales support, this could be in the form of AMC's or embedded engineers / technicians or the need-based supports whenever required by clients.

## PROCESS SOLUTIONS / MACHINE UPGRADATIONS

- » Reactor Automation
- » Sterile Plant Automation (CIP / SIP / WIP)
- » Solvent Recovery Plant Automation
- » Solvent Transfer Systems
- » Multiple Effect Evaporator Systems
- » Fermenters Automation (USP / DSP)
- » Hydrogenation Reactor Automation
- » Scrubber System
- » Layer Separation/PH System Automation
- » Various Driers Automation
- » Building Management System
- » Environmental Monitoring System
- » Energy Management Systems
- » Skid Automation
- » Powder Transfer System
- » SIL-2 Certified System
- » Gas monitoring system
- » Furnace/ Kiln Automation
- » Coal Stacker Reclaimer Automation
- » UG Station Automation
- » Printing Machine Automation
- » Conveyor Belt Automation
- » Bottling Plant automation
- » Servo Based Labelling System
- » Utility Management System
- » Water Treatment Plant System (DM, RO, PW, WFI)
- » Effluent Treatment Plant Automation
- » Warehouse Data Logging System

## MACHINE UPGRADATIONS

- » ANFD, RMG, Bin Blender, FBD, Compression Machine, Coating Machine, Lyophilizer, Micronizer Automation
- » Manual Machines to PLC / HMI / SCADA / IPC based machines.
- » Upgrade legacy machinery to PLC / SCADA / IPC based System.

## ADVANCE SOLUTIONS

- » EBMR
- » E-logbooks / E-displays
- » Golden Batch / OEE
- » IMCC's
- » Line Integration
- » Track & Trace
- » SQL / Oracle Based Reporting
- » Communication with Third party Protocols like Profibus / Profinet / Modbus

## ADVANCE TECHNOLOGY

- » Virtualizations (Server and Applications)
- » Thin Clients
- » Wireless Solutions
- » IIOT Solutions
- » Digital Transformation

## PANEL BUILDING

- » PLC / DCS Panel Manufacturing
- » VFD Panel Manufacturing
- » DDC Panel Manufacturing

## PLC/ DDC BASED BMS /EMS CONTROL SOLUTIONS

- » AHU Control Systems
- » Room Parameters Monitoring System like TT / Rh / DP
- » CCTV / FA / Access Control System
- » Communication with Chiller Systems
- » Vibration Monitoring System



# INSTRUMENTATION

Instrumentation is the backbone for any Automation System in an Industrial Manufacturing Plant. They help us to monitor the real time values and at the same time to control them. ICS is a turnkey solution provider and offer its client with all the aspects of projects and specifically Instrumentation like Design / Selection of instruments, Installation of Instruments / Consumables, Calibration of Instruments at site in lab and Final commissioning with the Control System.

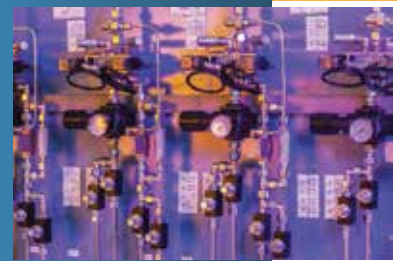
## SUPPLY

- ⊗ Temperature Transmitter / Gauges
- ⊗ Level Measuring Instruments
- ⊗ RTD's, PH, Conductivity, Proximity Sensors
- ⊗ Indicators
- ⊗ Switches
- ⊗ Cables and Cable Trays
- ⊗ Pneumatic Tubing & Fitting, MS Structure
- ⊗ Flow, Measuring Instrument
- ⊗ Pressure Measuring Instruments
- ⊗ On Off Valve, Control Valve
- ⊗ Gauges
- ⊗ Safety Instruments
- ⊗ Air Header, Junction Box



## PNEUMATIC PANEL

Pneumatic panel utilizes compressed air to operate and control various final control elements to perform their specific function. We offer Inhouse designing, Logic development & Panel manufacturing based on customer's need.



## PH DOSING SYSTEM

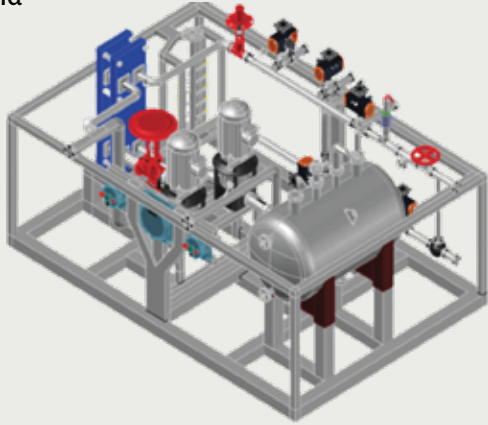
The pH dosing system is a vital technology used in diverse industries and applications to maintain accurate pH levels. It ensures optimal chemical reactions, water treatment, wastewater management, and agricultural processes. With pH sensors, controllers, and dosing pumps, this system guarantees efficiency and compliance with environmental standards.



## SKID DESIGN

A skid is an entire process system in a box. It arrives at the processing facility ready to be plugged into the power and utilities with very little on-site construction required. ICS has been providing its client with various Skid Like

- ⊙ Single Fluid Skid
- ⊙ Solvent Charging Skid
- ⊙ Hot Water Skid
- ⊙ Cip Skid
- ⊙ PRS Skid



## INSTRUMENTATION SERVICE

### ⊙ Instrumentation Design Services

- Technical Data Sheets
- Instrument Index
- Instrument Layouts
- Schedules (Cable / JB / AH)
- P & ID's
- Cable / Cable Tray Layouts
- Hook Up Drawings / Control Loop Diagrams
- Cause Effect Diagrams

### ⊙ AMC

### ⊙ O & M

### ⊙ Instrument Calibration Services

### ⊙ Instrument Erection / Installation Services

## AUTOMATION SERVICES

### ⊙ AMC Services

### ⊙ O & M Services

### ⊙ Embedded Engineer

### ⊙ Trouble Shooting / Break Down Services.

### ⊙ Network Design and Validation Services

## WHY ICS

### ⊙ Turnkey Automation Solution Company

### ⊙ Domain Expertise

### ⊙ PAN India Presence

### ⊙ Focused Service Vertical

### ⊙ In-house Team For Engineers and Technicians

### ⊙ 100 Percent Project Closure Rate.



## LOCATION

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Automation



Instrumentation



Electricals



Engineering Services