Control system Package (Upto SIL-3)







• Sensing • Measuring • Controlling • Automation

UK I USA I UAE I INDIA I ITALY I IRAQ I KSA I OMAN I TURKEY

www.autocontrolpi.com





About Us



Autocontrol Process Instrumentation (API) Originates from Autocontrol Technologies, a Company established in 1994 Italy.

Autocontrol Process Instrumentation (API) provide the complete Design, Engineering, Integration, fabrication, Technical support, Test, Commissioning and handover for all package system for Oil & Gas, Petrochemical, Chemical and Power industries as per the customer requirement. We also focused on Sensing Technologies, Measuring Instruments, Controlling Equipment, Automation Systems and all related Accessories. While API's activities cover a wider range of products, services and packages.

API's products are approved by International and National Oil and Gas Operators, Energy, Utilities and Industrial Companies.

We study and research on your requested systems and utilize best and competitive Technologies and instruments to meet your requirements.

For more information, please ask for a copy of our integrated company profile, or visit: www.autocontrolpi.com

> Whatever you need, we can sense it... Measure it... Control it and if necessary... automate it.....







Control System

A control system manages, commands, directs, or regulates the behavior of other devices or systems using control loops. It can range from a single home heating controller using a thermostat controlling a domestic boiler to large Industrial control systems which are used for controlling processes or machines.

The control panels are designed based on the type of energy and dynamics associated. Panels are named based on a functional media such as electrical, electronic, air, and oil.

The modern industry uses instruments for the management of various parameters such as electrical (voltage, current, power) process temperature, pressure, flow, acceleration, density, level mass, volume compositions.

The electronic instrument panels are needed to be placed away from high switch noise-producing elements such as VFD, motors, and pumps. Signal noise effects the measurement.





SIL is a relative level of risk reduction provided by a safety function SIL ratings correlate to the frequency and severity of hazards. They determine the performance required to maintain and achieve safety — and the probability of failure. There are four SILs — SIL 1, SIL 2, SIL 3, and SIL 4. The higher the SIL, the greater the risk of failure. And the greater the risk of failure, the stricter the safety requirements.

Safety Integrity Level	Probability of Failure on Demand	Probability of Failure on Demand
SIL 4	>10 ⁵ to <10 ⁴	100,000 to 10,000
SIL 3	>10 ⁴ to <10 ³	10,000 to 1,000
SIL 2	>10 ³ to <10 ²	1,000 to 100
SIL 1	>10 ² to <10 ¹	100 to 10





Control System

Control System Architecture:

Control system architecture can range from simple local control to highly redundant distributed control systems. Reliability criteria for industrial facilities dictate the application of redundant or distributed control systems or programmable logic controllers.

Local Control System:

Local control system architecture in which sensors, controller, and controlled equipment are within close proximity and the scope of each controller is limited to a specific system or subsystem. Local controllers are typically capable of accepting inputs from a supervisory controller to initiate or terminate locally-controlled automatic sequences, or to adjust control set points, but the control action itself is determined in the local controller.





Centralized Control System:

Centralized control describes a system in which all sensors, actuators, and other equipment within the facility are connected to a single controller or group of controllers located in a common control room. Locating all controls, operator interfaces and indicators in a single control room improves operator knowledge of system conditions and speeds response to contingencies.





Control System

Distributed Control System:



Distributed control system architecture offers the best features of both local control and centralized control. In a distributed control system, controllers are provided locally to systems or groups of equipment, but networked to one or more operator stations in a central location through a digital communication circuit.





Installation, Commissioning & Service

Installation & Commissioning:

Many of our clients have engaged us in the installation and commissioning of the equipment we supply and can therefore be fully confident in site system performance, safety and reliability as was engineered.

- Turn-key, fully seamless integrated solution, one stop shop with added advantages of foresight.
- Single point of contact and accountability
- Installation and commissioning by engineers experienced and cognizant with the platform and design and who can deliver Innovative Solutions to unexpected site issues as are often encountered.
- Bespoke arrangements

• Immediate and full access to the project engineering team responsible for the application design to advise in any unforeseen site Implementation problems at no additional cost.

Key Business Benefits Derived:

- Confidence in effective and competent installation and commissioning with easy access to engineering base support
- Contributes to lifetime performance, functional efficacy and safety.
- Cost effective, simplifies management overhead with reduced contractual risk.
- Ensures against third party systematic errors with immediate and/or potential later incurred costs.

Our Service offering:

Benefits:

The system you have purchased has been engineered, manufactured and tested to the highest standard. However, we recognize that The system will serve its purpose to the maximum efficacy where competent engineering is engaged throughout its entire life cycle and not just up to point of delivery and later application of highly competent operations and maintenance. An engineering solution that is well designed, built and tested can easily be compromised by insufficiently enlightened installation or Commissioning that can act in detriment to the longer term system performance, safety, reliability and application. It is more often So, as an imperative, that installation and commissioning requires extensive knowledge of the platform, application and site Integration.









Our Global Presence



UK

Autocontrol Process Instrumentation Ltd.

- Unit B4; Greeba Road; Southmoor Industrial Park Wythenshawe; Greater Manchester, England Post Code - M23 9XS, United Kingdom
- 🔇 +44 161 5074 443
- 🐱 sales.uk@autocontrolpi.com
- www.autocontrolpi.com

INDIA

Autocontrol Process Instrumentation Pvt. Ltd.

- Plot No-B-85/4, Ambernath Additional MIDC, Anand Nagar, Nr. ASB Company, Ambernath, Thane, Maharastra, India - 421506
- 🔀 sales.india@autocontrolpi.com
- www.autocontrolpi.com

KSA

Autocontrol Process Instrumentation LLC.

- Unit S1/2/44, Dammam 2nd Industrial Area, West (SCOOP)
 Kingdom of Saudi Arabia
- 🔀 sales.ksa@autocontrolpi.com
- 📵 www.autocontrolpi.com

USA

Autocontrol Americas Inc.

- Unit 24/26 220 Barren Springs Dr, Houston, Texas 77090, United States of America
- sales.usa@autocontrolamericas.com
- www.autocontrolamericas.com

ITALY

Autocontrol Europe Srl.

- Via Vittorio Veneto, 23, Cap 20010 Bernate Ticino Milano, Italy
- sales.europe@autocontroleurope.com
- www.autocontroleurope.com

OMAN

Autocontrol Process Instrumentation LLC.

- Ghala Al Sanaiah, Bousher, Postal Code 112, Muscat Governorate, Muscat, Oman
- 🔀 sales.oman@autocontrolpi.com
- 📵 www.autocontrolpi.com

UAE

Autocontrol Process Instrumentation FZC.

- Plot No. 1H-08B, PO Box 51722, Hamriya Free Zone , Phase 1, Sharjah, United Arab Emirates.
- 🔀 sales.uae@autocontrolpi.com
- www.autocontrolpi.com

IRAQ

Autocontrol Process Instrumentation FZE.

- Italian City1, Villa 59 Erbil Kurdistan, Iraq
- sales.iraq@autocontrolpi.com
- 📵 www.autocontrolpi.com

TURKEY

- Autocontrol Process Instrumentation Elektronik Imalat Ticaret Sanayi Limited Sirketi
- Ornek, Bestekar Amir Ates Cd. No. 10A, 34704 Atasehir, Istanbul, Turkey
- 🔀 sales.turkey@autocontrolpi.com
- 🝥 www.autocontrolpi.com



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