



Instrument & Automation Solutions

تکتاز ابزار تجهیز



**Specialized in Industrialization,
Automation, and Control Systems**

Business Areas

Taktaz Instrument Co. as one of the leading suppliers of a wide array of industrial and field equipment, we offer products and services to:

Oil, Gas and Petrochemical

Power Generation Plant

Water & Sewage Plants

Mines & Metals Industries

The first activity and scope of business groups is in the fields of oil, gas and petrochemical industries, which we can do in automation and instrumentation to customers in the upstream and downstream related industries, directly and indirectly. This is an active member of the association of equipment manufacturers oil and industrial automation, and their result of business operations, engineering and production are utilized in throughout country.

Taktaz Instrument Co. renders wide variety of engineering services including equipment procurement, consultation and design, installation and commissioning of industrial systems. Generally speaking, the main services being rendered by this company in the field of Electrical and Instrumentation are as below:

Consultation and Design:

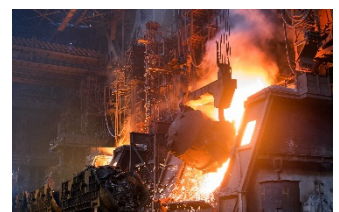
- Design and produce documents, basic and detailed engineering of industrial projects
- Preliminary and feasibility studies
- Project Management Consultancy Services (MC)

Procurement of Instruments and Control System

- Supply and Production of equipment and spare parts and electrical equipment and instrumentation including:
- level, flow, pressure and temperature measuring systems, controllers, etc.
- Liquids and gases analyzers
- All kinds of Actuators and control valves
- Design and manufacture of control and electrical panels
- Adjustment and calibration of instruments

Construction and Installation

- installation of mechanical equipment, electrical & Instrumentation
- Reconstruction of power equipment, instrumentation and mechanical industrial units
- Holding training courses on instrumentation and automation



Control Systems

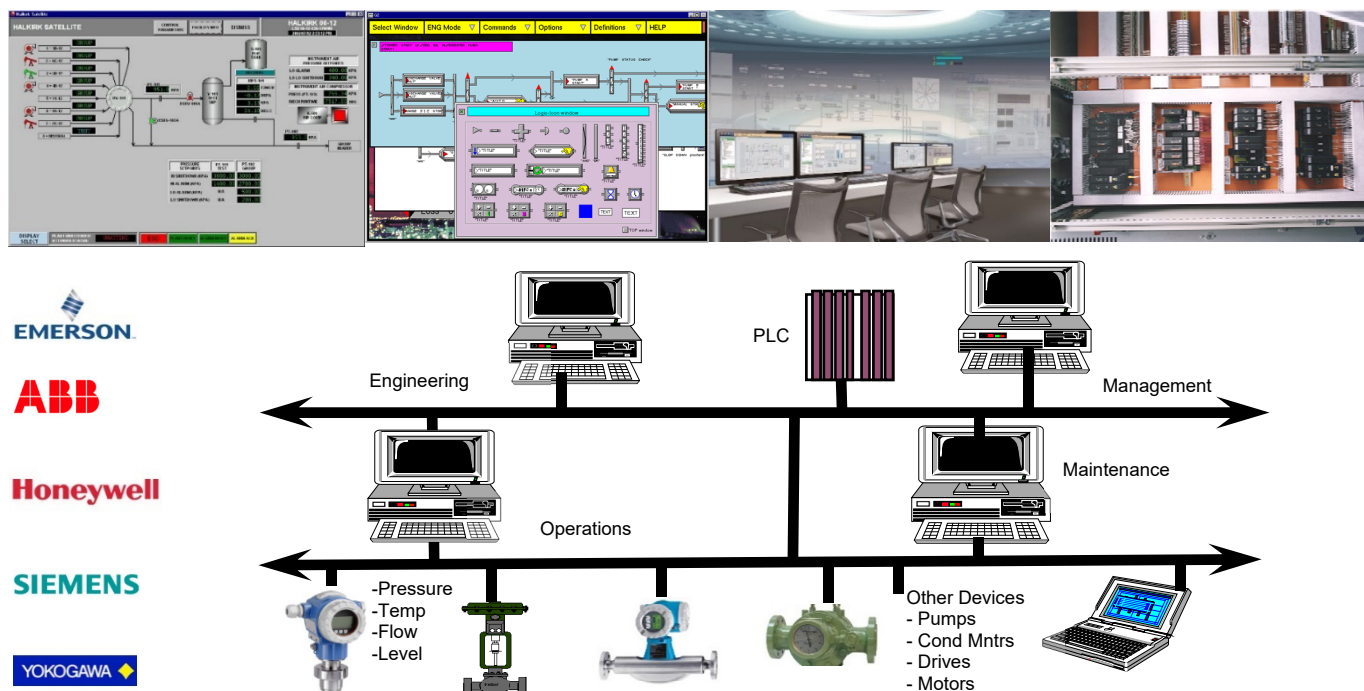
Process Control System, Safety System, PLC System, SCADA System

Process control and automation solutions for Oil & Gas and Petrochemical industry.

We provide a world-class control system for all process applications in offshore and onshore. With our solution our customers create an integrated enterprise where PLCs, control systems, F&G, ESD, maintenance systems and ERPs all collaborate in one seamless environment. We offer you the foundation for truly integrated process operation.

In a dynamic global industry like oil and gas, you need to manage costs, extract the most value possible from current assets and maximize up-time. The technology available today makes it possible to develop a truly connected enterprise and move closer to operational excellence. Cloud, mobility and analytics offer an actionable view into real-time production data so you can respond to issues as soon as they arise, from anywhere in the world.

Improvements in production can translate into increased efficiency and productivity. Whether you would like to reduce your energy consumption, upgrade legacy systems or make better use of the data you generate, we have the oil and gas equipment and resources you need to meet your goals. We also bring a wealth of industry knowledge, drilling automation, and oilfield automation experience to help you remain competitive in a dynamic industry landscape.



Field Instrument

Pressure measurement, Level measurement, Flow measurement, Temperature measurement

Field instruments designed to control automation processes.

Depending on the application a field instrument is required to measure and control different automation processes. This is why our field instruments use different measuring principles to operate reliably and accurately in any situation. See our wide range of process instrumentation to measure and control, system components and data managers for data visualization, and recording and software tools to support the seamless integration of field instruments into many different automation systems.

Field instrumentation to measure and monitor flow, level, pressure, temperature and analyze liquids.



Control Valves

Actuators, Emergency Shutdown, Safety Relief, Vacuum Breakers, Rupture Disks, Solenoid Valves

Highly reliable flow control technologies help you regulate and isolate your processes with certainty.

In day-to-day plant operation, you have a long list of concerns, like meeting production schedules, maintaining product quality, and improving the efficiency of plant utilities, to name just a few. The last thing you should have to worry about is the performance of your plant's control valves. The control valve manipulates a flowing fluid, such as gas, steam, water, or chemical compounds to compensate for the load disturbance and keep the regulated process variable as close as possible to the desired set point.

Taktaz Instrument co. provide a full range of valve products to a multitude of industries including engineering and servicing. our portfolio, comprised of most trusted brands such as Fisher, Masoneilan, Asco, Parker, etc. Our vast inventory and buying power allow us to provide virtually any valve type, for a wide range of applications. Our staff of experienced professionals understand modern valve applications, and can quickly get you the valve you need when you need it. Our diversified offering of Gate, Globe, Check, Ball, Butterfly, Needle and Gauge Valves are fully designed, engineered and manufactured to fulfill Our client based needs.

- **Control Valves**

Reliable control valves help meet production schedules, maintain product quality, and improve plant efficiency.

- **Isolation and Shutoff Valves**

Provide exceptional process shutoff with ball and butterfly valves that are designed to meet or surpass industry standards.

- **Regulators**

Reliable pressure control technologies renowned for setting industry standards for performance and extended service life.

- **Actuators**

Experience precise control, reliable field operation, and reduced maintenance costs.

- **Controllers and Instruments**

Provide consistent and predictable insight of valve assembly performance and condition.



Fire and Gas Devices

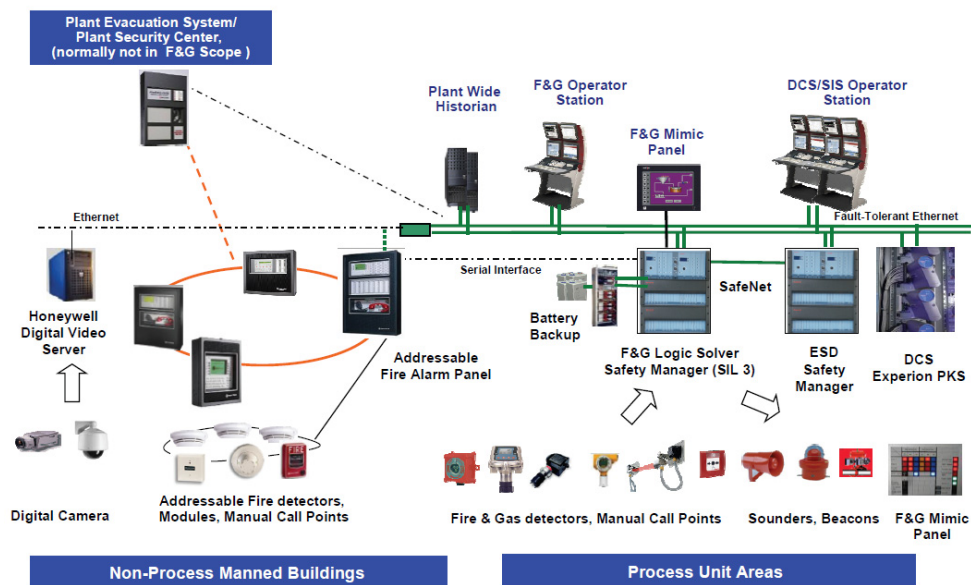
Gas, Smoke, Heat, Hydrant, Extinguisher, FGCP, FACP, PLC

Detection of possible risks: flame, smoke, heat, combustible gas, toxic gas, manual and automated alarms.

Any industrial plant must be designed to be safe. Layers of protection should be identified and implemented in order to mitigate risks on the installation and personnel. These layers of protection will make the process and its personnel safe.

A Fire and Gas (F&G) detection system is a very wide-spread and effective SIS. It detects any danger in terms of fire or combustible / toxic gas leaks and takes action to minimize the danger and prevent it turning into a fire or explosion. A F&G detection system continuously monitors all areas and provides the operator with the information of detection/protection systems. It gives warnings to personnel of any hazardous situation and takes action depending upon the level of hazard detected (process shutdown, fire extinguisher release).

To meet the requirements of our ever-changing market, Taktaz Instrument Co. pride ourselves on being a **complete fire alarm system supplier**. This means our customers can rely on us for their entire fire system requirements.



Analyzers

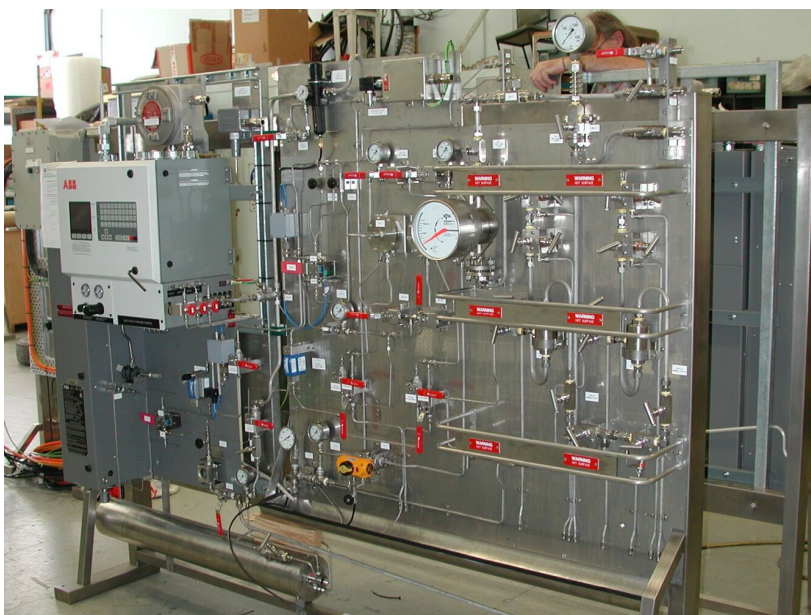
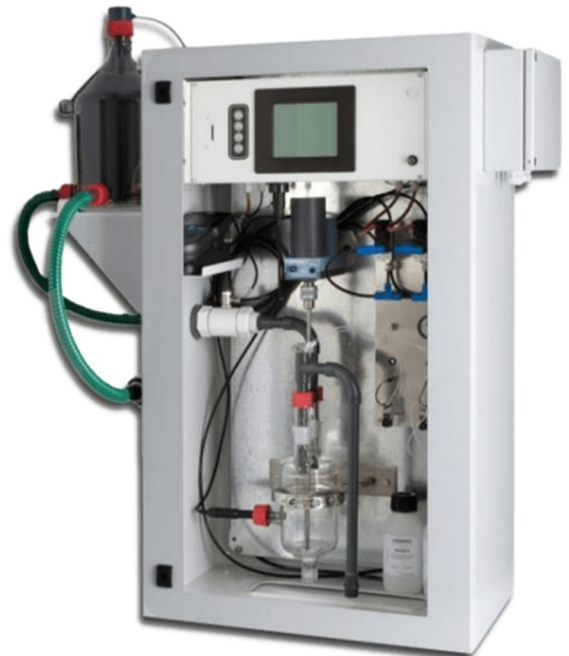
PH meters, conductivity Analyzers, Infrared Analyzers, Gas Chromatograph, Oxygen Analyzer, Hydrocarbon Analyzer, Humidity Analyzer

Improving the operation, reliability, and credibility of online process analyzers.

Taktaz Instrument Co. is performed equipment selection and sampling design base on the knowledge and experience of highly qualified engineering team independently.

Below indicates our abilities in designing, manufacturing and supplying several types of industrial analytical systems for various applications:

- kinds of gas analyzers, gas chromatographs, liquid analyzers and measuring PH, portable analyzers, conductivity and dissolved oxygen, suspended solids, turbidity measurement, oil in water, TSS, BOO, COD.
- Continuous Emission Monitoring System (CEMS).
- Repair, and commissioning services for analytic systems.
- Supplying spare parts and provide expert consultancy.
- we provide training Courses for analytical systems.



Process analyzers are online tools for industrial process analytics, used to determine the chemical composition or physical properties of substances involved in industrial processes. They enable process optimization, asset protection, and compliance with environmental regulations.

SIEMENS

ABB

Dräger

SERVOMEX



Honeywell

EMERSON

YOKOGAWA

Tank Gauging Devices

water, cargo, fuel, oil, bilge and mud tanks, vessel's draught indicator

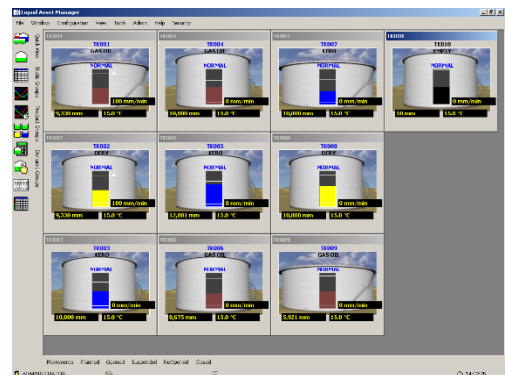
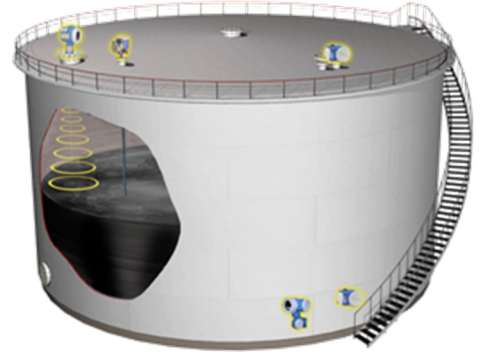
Controlling and monitoring of the inventory of your tank with highest accuracy level instrumentation.

Monitoring and control of bulk liquids during processing, transportation and storage is challenging. You need to keep track of how much raw material you have on site and how much storage space you have available. Besides that the tank environment and relevant safety considerations are of high importance. We have established the largest installed base of highly accurate and custody transfer qualified tank gauging systems throughout refineries, tank farms, depots and terminals.

Automatic Tank Gauging (ATG) is an essential tool for the management of tank contents, inventory control and general tank farm management. Accurate measurement is always a key requirement but reduction of product losses and overfill protection are also important factors when selecting a system.

Taktaz Instrument Co. is able to offer the customer a tank gauging system to meet their exact specification based on the tank farm infrastructure, and business needs.

Alternatively, as an independent supplier we are able to offer new tank gauging equipment for the depot from a number of different manufacturers.



Tank farm monitoring

When operating a tank farm productivity, safety and environmental issues are very important topics. Apart from that other market trends need to be considered: Across many departments within an organization live real time information is needed, even throughout multiple sites to allow consolidation. For all of these challenges, Taktaz Instrument Co. is your partner to support you to overcome these challenges.



Bargraph Group - Group "Crude Oil"					
	TK-1	TK-2	TK-3	TK-4	Total:
Product	Crude	Crude	Crude	Crude	
Level					
	3.604 m	5.527 m	12.622 m	17.866 m	
Avg Temp	26.3 °C	27.4 °C	23.2 °C	26.8 °C	
TOV	5488.774 m3	6633.499 m3	12622.905 m3	17868.721 m3	42613.900 m3
NSV	5436.082 m3	6563.184 m3	12534.544 m3	17688.247 m3	42222.058 m3
WIA	4614.038 ton(m)	5570.700 ton(m)	10639.071 ton(m)	15013.431 ton(m)	35837.239 ton(m)

TAKTAZ Completed Projects

KURDISTAN PETROCHEMICAL

- Hotwater manual regulating valves Samson
- Spare Part for ON/OFF valves LDPE plant, PFEIFEER and Samson
- Instrument Spare Parts for Samson Control Valve
- Spare Parts for ESD system (HIMA)
- Spare Part for DCS system (Yokogawa, P+F, Seimens, ABB, ets)
- Pilot Operated Check Valve
- Actuator Kinetrol

BANDAR IMAM PETROCHEMICAL

- Instrument and Control Valve
- MTL barrier, circuit breaker
- Regulators, panel spare parts
- Yokogawa transmitter
- Endress Hauser Radar Level transmitter
- Rosemount Instrument and MVT Valve
- Marsh Bellofram Regulator
- Mascot Valve
- MTL Control system Panel
- VOITH I/H converter

IGC Co.

- Control System Spare Parts (Allen Bradley)
- Control System Spare Parts (Bently Nevada)

ARVAND PETROCHEMICAL

- Yokogawa control system
- Krohne Flowmeter

SOUTH PARS

- GE control systems parts

KERMANSHAH PETROCHEMICAL

- Honeywell control system spare parts
- Siemens Pressure transmitter

MARUN PETROCHEMICAL

- Honeywell control system spare parts

ARYA SASOL Co.

- Control System Spare Parts (ABB)

MARUN PETROCHEMICAL

- PLC & DCS spare Parts (Honeywell)

GHADIR PETROCHEMICAL

- Masoneilan Positioner

TEHRAN REFINERY Co.

- Yokogawa Pressure and Temperature Transmitters

BOU ALI PETROCHEMICAL

- Yokogawa Pressure transmitter instruments

TEHRAN REFINERY Co.

- Yokogawa pressure & temperature transmitter



Subsidiary of PARS

ILAM PETROCHEMICALS

- 86 Samson Positioners

ARVAND PETROCHEMICAL

- Sick Ultrasonic Flowmeter

KURDISTAN PETROCHEMICAL

- Emerson Mass Flowmeter
- Samson Control Valves

GACHSARAN OIL AND GAS

- 14 Instrument parts
(Samson, Asco, Beta)



The Brands we supply:

Taktaz Instrument Co. has provided the following reputable brands in its projects.



Years of technical and commercial interaction with well-known manufacturers, enable us to prepare the best and tailored offers. Some of these brands are listed as following:



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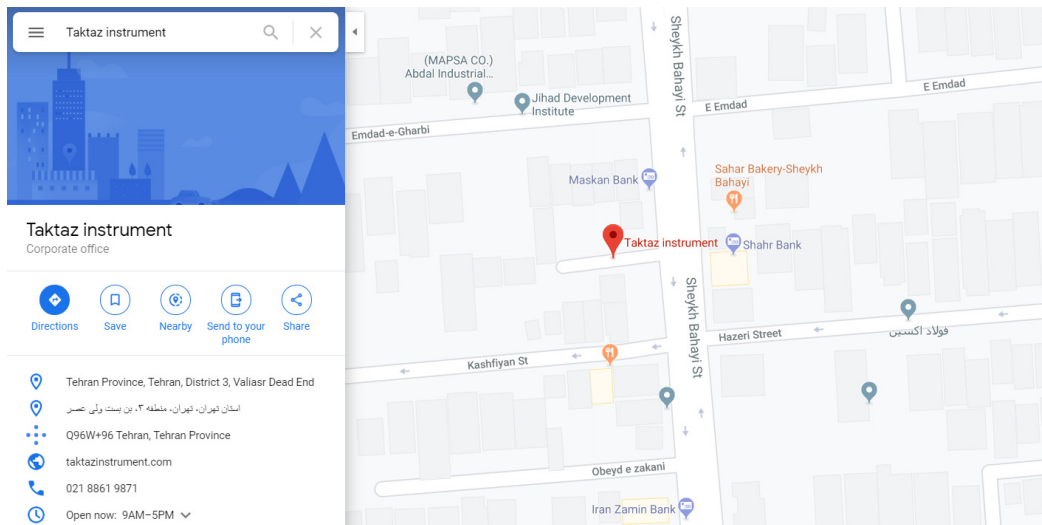
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