



China

HollySys Group (Group Headquarters)
No.2 Di Sheng Middle Road, Economic-Technological Development Area, Beijing 100176
Tel: +86 10 58981000 Fax: +86 10 58981100
Hangzhou HollySys Automation Co., Ltd. (Industrial Automation Headquarters)
No.1 North No.19 Street, Qiantang District, Hangzhou 310018
Tel: +86 571 81633600 Fax: +86 571 81633700

Singapore

HollySys (Asia Pacific) Pte. Ltd. (International Headquarters)
Changi Business Park Crescent, #04-01/02/03 Plaza 8 @ CBP, Tower A, Singapore 486025
Tel: +65 6777 0950 Fax: +65 6777 2730

India

HollySys Automation India Pvt. Ltd.
D-84, Ground Floor, Sector 63, Noida, Uttar Pradesh 201301
Tel: +91 12045 50652

Indonesia

PT. HollySys Automation Indonesia
Metropolitan Tower, 10th Floor Unit E, Jl. R.A. Kartini Kav. 14, Jakarta 12430
Tel: +62 21 2918 2926 Fax: +62 21 2918 2936

Web: www.hollysys.com
E-mail: sales_international@hollysys.com (Sales)
iaservice@hollysys.com (After-sales Service)



Intelligence
For Excellence

Profile

Founded in 1993, HollySys is a leading supplier of intelligence solutions with more than 4,700 employees and operates in both China and abroad. HollySys is headquartered in Beijing with R&D, production, and service bases in Beijing, Hangzhou, Xi'an, Singapore, and local branches in major cities in China, as well as offices in India, Malaysia and Indonesia, establishing a comprehensive service network across the world.

HollySys business consists of industrial intelligence, transportation intelligence, and food and pharmaceutical intelligence, covering the main industries for the national economy and the people's livelihood. With years of technological accumulation in various fields and continuous capacity building, we can provide customers with customized integrated solutions, stable and reliable products, and full lifecycle services, helping them improve market competitiveness. Over the past three decades, we have served more than 35,000 clients, successfully completed more than 45,000 projects, and gained more than 1,000 new clients each year, making HollySys a world-renowned brand in automation and intelligence filed.

The HOLLIAS industrial control platform of HollySys features a series of advanced, practical and reliable industrial automation systems and HollySys automation instrumentations products. The system products include MACS-K, MACS-S industrial control system DCS, professional control systems such as DEH, ETS and SIS, and whole-process information-based software for manufacturing enterprises. Instrumentation products include isolated safety barriers, signal isolators, surge protectors, power transmitters, pressure transmitters, electromagnetic flowmeters, metal tube float meters, magnetic level gauges, radar level gauges, throttling elements, thermal elements, and pressure gauges.

The company's products have been successfully applied to major projects and key equipment, including 1000MW ultra-supercritical thermal power units, 1.2 million tons of urea and 5 million tons of oil refining main units, earning a good reputation in the industry.

Specializing in HollySys Instrumentation and control system engineering and integration, the company can provide both new and brown field projects of enterprises with HollySys proprietary products, as well as comprehensive engineering services such as customized design and construction & commissioning.

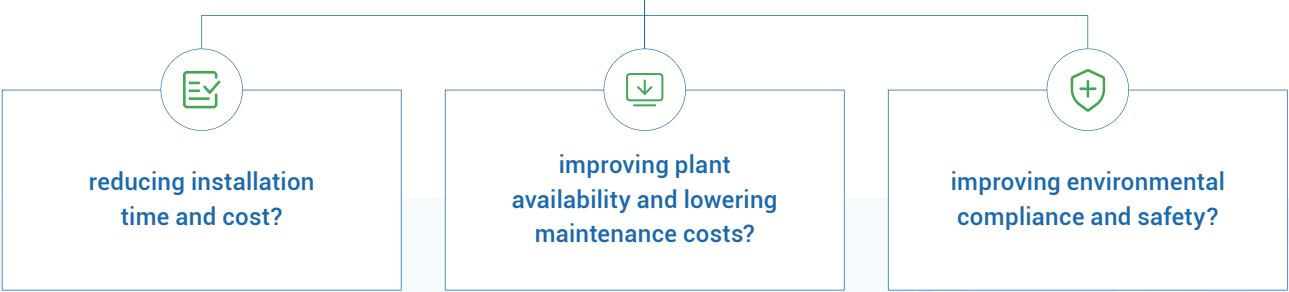
HollySys has always pursued continuous innovation and R&D while sticking to its vision "create the most valuable intelligent company through stable and sustainable development" to provide more reliable, secure, and intelligent technology and products for our customers.

Contents

Advanced Instrument Solutions From HollySys	1
HollySys Instrument Products System	2
Pressure	3
Level	6
Flow	9
Temperature	11
Gas Detection	12
Safety Barrier	14
Instrument Panel Cabinet	16
Typical References of HollySys	17

Advanced Instrument Solutions From HollySys

How Could Accurately Measure Process While



Challenge

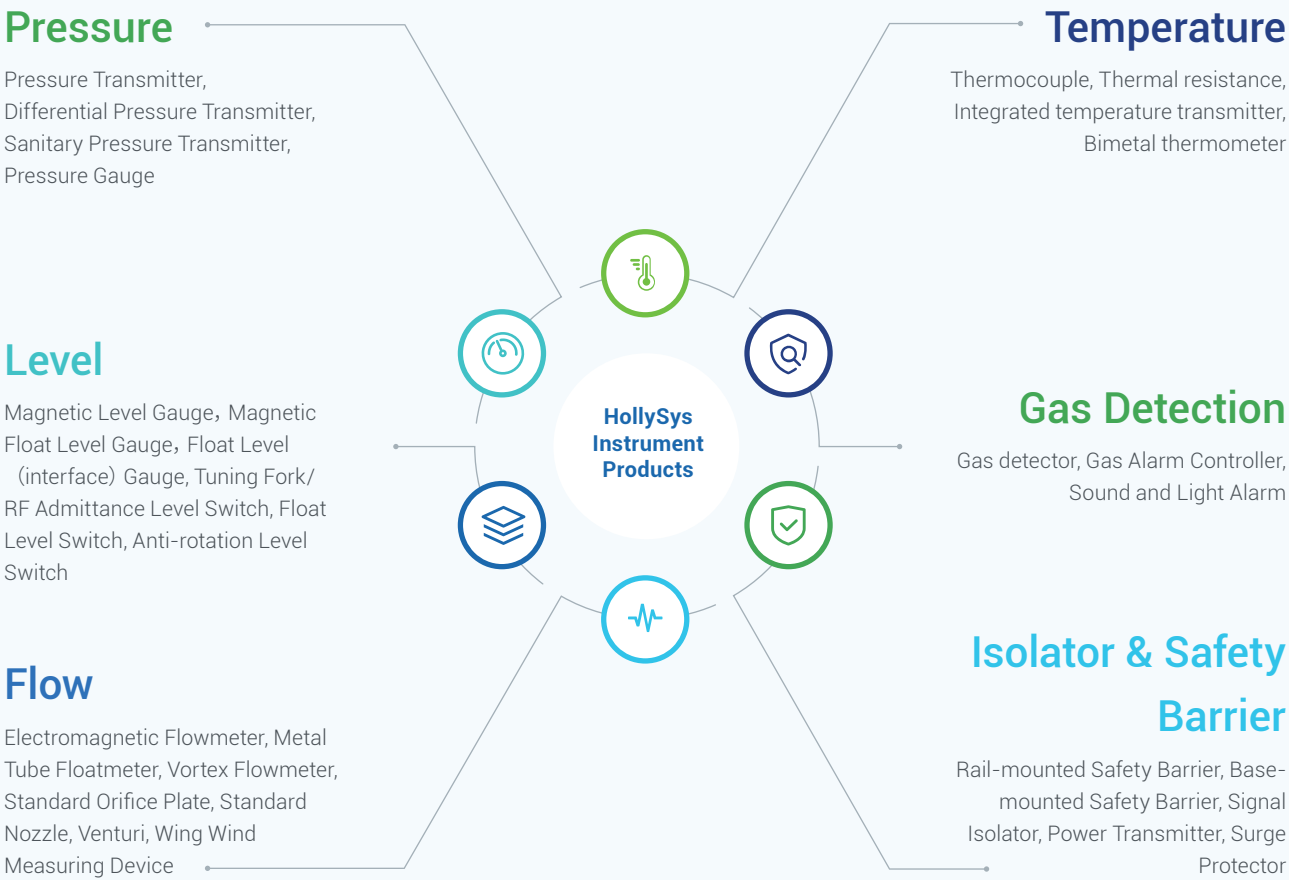
- How to maintain accurate measurements in harsh environments without maintenance workload ?
- How to Install configuration quickly and simplify operation?
- How to ensure the close cooperation of multiple instruments ?
- How to use a single interface when maintaining multiple different instruments ?

Our solution

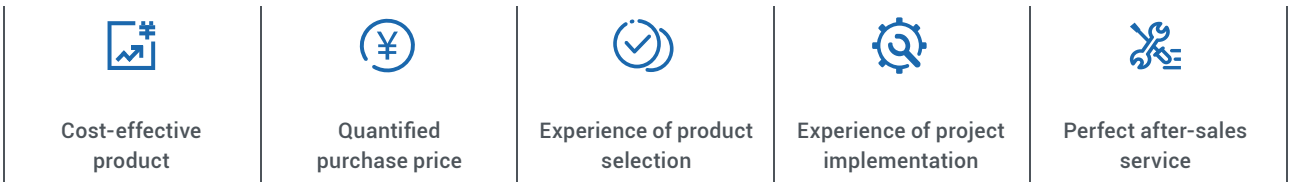
- One stop solution of measurement.
- Covering all methods of measurement.
- Save costs of installation and maintenance.



HollySys Instrument Products System



Values Added To Customers By Selecting HollySys Instrument



Pressure

Pressure Transmitter

The product is widely used in the measurement of differential pressure, liquid level, flow, pressure, absolute pressure, etc. in the industrial production process. It generates an output signal that conforms to 4-20mA/HART, Modbus-RTU/RS485 protocol. The digital signal contains various configurations, signal status and malfunction self-diagnosis information displayed by LCD. The local buttons allow for adjustment of zero point, full range, shift and other functions.

AT5000 Series Pressure Transmitter

—High accuracy and stability

Technical Parameter

- Adapt to harsh industrial environment: The world's advanced mono-crystalline silicon sensor technology and patented packaging process are enough to cope with harsh industrial environment
- Wide measurement range: Wide range, pressure is up to 40MPa,differential pressure measuring range 200Pa~10MPa
- Wide measurement medium temperature range: The remote transmitter can measure a wide range of medium temperatures up to -45° C~+315° C
- Rich filling fluid: normal temperature silicone oil, inert filling fluid, high temperature silicone oil, etc
- High accuracy: $\pm 0.1\%FS$, $\pm 0.05\%FS$ or customization
- High electrical insulation strength: Adopting glass-sintered integrated sensor leads achieves high-strength electrical insulation with metallic substrate
- Customized measurement diaphragm based on the measurement medium: 316L, Hastelloy C, tantalum, PFA coating, gold-plated, etc
- Adopting isolated electronic components, with strong anti-electromagnetic interference and anti-overvoltage capability greatly improves the communication performance
- The sensor module integrated with temperature measuring elements has strong resistance to vibration, humidity and environmental temperature changes
- Backlit LCD display is standard in the whole system



Direct-mounted Pressure Transmitter



Single Flange Pressure Transmitter



Differential Pressure Transmitter



Single Flange Level Transmitter



Double Flange Remote Differential Pressure Transmitter

AT4500 Series Sanitary Pressure Transmitter

—Conforms to the United States Health Class 3A certification
Apply to the food and pharmaceutical industry

Technical Parameter

- Adopt the world's advanced mono-crystalline silicon sensor technology and patented packaging technology, and the overall stainless steel design
- The process liquid part is welded with high-quality 316L stainless steel diaphragm
- Polishing finish $\leq 0.4\mu m$, choose the sanitary filling liquid that conforms to FDA certification
- Wide range: the maximum pressure is up to 40MPa, and the differential pressure measurement range is 10kPa-1MPa
- Accuracy level: 0.1 and below
- The remote transmitter can measure a wide range of medium temperatures, up to -40° C~+200° C
- Filling fluid options: silicone oil, sanitary filling fluid, etc
- Isolation diaphragm: 316L, Hastelloy C, etc
- Isolated electronic components, strong anti-electromagnetic interference and anti-overvoltage capability, and greatly improved communication performance
- The sensor module integrated with temperature measuring elements has strong resistance to vibration, humidity and environmental temperature changes



Sanitary High Temperature Pressure Transmitter



Sanitary Differential Pressure Transmitter



Sanitary DIN11851 Transmitter



Sanitary Remote Double Flange Differential Pressure Transmitter

➡ Pressure Gauge

It is widely used in gas transmitting, liquid tubes and vessels, measuring the working pressure of medium such as liquids and gases that pose no explosion hazard, crystallization, or solidification and do not corrode the alloy.

It features small volume, ingenious structure, stable performance, safety and reliability, and intuitive display.

Normal Pressure Gauge, Pressure Vacuum Gauge, Vacuum Gauge

Technical Parameter

- Nominal Diameter: Φ60, Φ100, Φ150, Φ160, Φ200, Φ250
- Connection Thread: M20×1.5, M14×1.5(only Φ60 optional)
- Measuring Range: Normal Pressure Gauge 0~0.06MPa to 0~60MPa
- Pressure Vacuum Gauge -0.1~0.06MPa to -0.1~2.4Mpa
- Vacuum Gauge -0.1~0Mpa
- Accuracy Class: 1.0
- Environment Conditions: -40° C~70° C, the relative humidity shall not exceed 85%



Gauges with Capsule Elements

Technical Parameter

- Nominal Diameter: Φ75, Φ100, Φ150, Φ160
- Connection Thread: M20×1.5, M14×1.5(only Φ75 optional)
- Measuring Range: Positive pressure 0~1.6kPa to 0~40kPa
- Negative pressure -1.6~0kPa to -40~0kpa
- Both -0.8~0.8kpa to -20~20kPa
- Accuracy Class: 1.0
- Environment Conditions: -25° C~55° C, the relative humidity shall not exceed 85%



Diaphragm Seal Pressure Gauge

Technical Parameter

- Nominal Diameter: Φ100, Φ150, Φ160
- Measuring Range: 0~0.1MPa to 0~60MPa
(The maximum measuring ranges depends on different diaphragm isolators)
- Accuracy Class: 1.0
- Disphragm Material: 316L, Hastelloy alloy, Monel, Ta, Fluoroplastic
- Diaphragm Isolator: Flange, Ⅰ Style Flange, Screw Thread, Bolt, For Viscolizer, Clamp Type, Nut
- Sealed Liquid: High Viscidity Silicon Oil, Low Viscidity Silicon Oil, Glycerin Plant Oil, Fluorocarbon Oil



Level

➡ Magnetic Level Gauge

It is widely used in liquid level measurement and control in the production process across various industries including power, petrochemical, chemical, metallurgy, environmental protection, shipbuilding, construction, food and others. This product is equipped with liquid level control and alarm switch that enables liquid level control, alarm and interlock functions. Additionally, equipped with built-in integrated liquid level transmitter, it converts the liquid level (interface) signal into the two-wire system 4~20mADC standard signal, and realizes the remote detection and control of liquid level.



AL2300 Series Magnetic Float Level Gauge

Technical Parameter

- Measuring Range: 0~6000mm
- Accuracy: ±10mm
- Output Signal: 2-wire system 4-20mA
- Power Connection: M20×1.5(M)
- Operating Temperature: -15~120° C
- Operating Pressure: -0.1MPa~4.0MPa
- Power Supply: 24VDC(HollySys instrument has a 24VDC power supply output)
- Tube Material: 304, 316, 316L, PP, PTFE

AL2000 Series Magnetic Level Gauge

Technical Parameter

- Measuring Range: 0~15000mm
- Accuracy: ±10mm
- Structural Style: Basic type, medium temperature and medium pressure type, high temperature and high pressure type, sanitary type, low density type, anti-corrosion type, jacket heating type, electric heat tracing type, vacuum jacket type, balanced transmission type, low temperature frost-prooftype, magnetic sensitive type (LED two-color light column)
- Adopt the stainless steel panel and scale. The outer diameter of the measuring tube is 63mm. The appearance is beautiful and the material is solid. The indicator is sealed structure (vacuum can be pumped as required)
- It can be equipped with B200 series liquid level remote transmitter. Adopt imported reed tube



Intelligent Buoyancy Liquid Level (Interface) Transmitter

Technical Parameter

- Measuring Range: 0~4000mm Accuracy: 0.5%FS
- Power Supply: 24VDC Electric Join: M20×1.5(F)
- Operating Temperature: -196-400° CTorque Operating Pressure: -0.1MPa~40MPa
- Tube Material: Inconel 600 Contact Material: 304, 316, 316L, etc
- Transmitter: Fisher, Hollsys

Level Switch

HollySys offers a range of level switches including tuning fork level switch, floating ball level switch, anti-rotation level switch, radio frequency admittance level switch and other level switches. The products are widely used in chemical, petroleum, bower plant, metallurgy, cement, water treatment, paper&pulp and other industries. The switches feature excellent stability and adaptability, and come in both intrinsically safe and explosion-proof versions to meet various explosion-proof requirements.

ALYK-200 Series Tuning Fork Level Switch

Technical Parameter

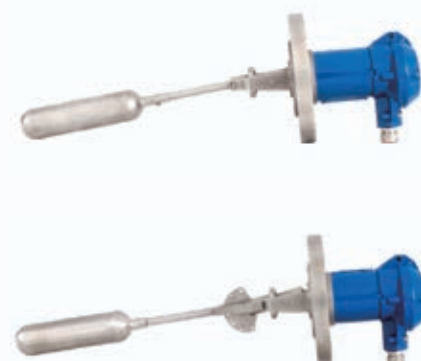
- Power Supply: 24VDC, AC220V (50/60Hz)
- Operating Temperature: -20~150° C
- Output: DPDT Relay contact output
- Contact Capacity: AC220V, 5A
- Explosion-proof: Exd IIC T6 Gb



ALFK-300 Series Side-mounted Float Level Switch

Technical Parameter

- Product Category: Side-mounted Float Level Switch
- Controlling Range: 0~550mm
- Operating Pressure: -0.1~10MPa
- Operating Temperature: 0~350° C
- Process Connection: DN50 DN80 DN100 or according to users requirements
- Electric Join: M20×1.5(F)
- Explosion-proof: Exd IIC T4-CT6 Gb



ALFK-340 Series Top-mounted Connecting Rod Floating Ball Level Switch

Technical Parameter

- Product Category: Top-mounted Connecting Rod Floating Ball Level Switch
- Controlling Range: 100~6000mm
- Operating Pressure: -0.1~2.5MPa
- Operating Temperature: -20~120° C
- Process Connection: DN50 DN80 DN100 or according to users requirements
- Electric Join: M20×1.5(F)
- Explosion-proof: Exd IIC T4-CT6 Gb



ALDK-400 Series RF Admittance Level Switch

Technical Parameter

- Power Supply: 24VDC, AC220V (50/60Hz)
- Output: DPDT Relay contact output. AC220V, 5A non-inductive/3A inductive
- Adaptability: Probe using temp.range: 186° C~420° C; The circuit heat-resistant -40° C~80° C
- Sensitivity: Less than 0.3 PF
- Adjustable Time Delay: 0-60 Second
- Stability: High stability, resistance to fly ash, blanking, water vapor, crystallization, wax.
- Maintenance free: There are no activities, no easily worn parts, and no need for frequent cleaning, maintenance, or debugging
- Designed with a panel concept. It allows for automatic calibration of operating point and seamless operation upon installation
- Explosion-proof: Exdia IIC T4-CT6 Gb



ALZK-500 Series Resistant Rotation Level Switch

Technical Parameter

- Power Supply: AC220V (50/60Hz), Special requirement for 24VDC power
- Consumed Power: 3W
- Contact capacity: AC250V 5A SPDT
- Rotate speed: 1R.PM
- Torque force: 0.5~1.0kg cm
- Operating Temperature: Normal ≤ 120° C High Temperature ≤ 350° C
- Electric Join: M20×1.5(F)
- Process Connection: Screw Type, Flange Type, Axis Protection Type, Adjustable Axis Length Type, Steel Rope Type
- Explosion-proof: Exd IIC T4-CT6 Gb, Ext DA21 IP65 T85° C



Flow

Electromagnetic Flowmeter

HollySys electromagnetic flowmeter is used for accurate measurement of liquid, pulp, slurry and mineral pulp with conductivity >5μS/cm. It is the preferred instrument in chemical, pharmaceutical, daily chemical, municipal water supply, sewage treatment, food and pulp&paper industries.

AF2000 Series Electromagnetic Flowmeter

—High-precision Electromagnetic Flowmeter

Technical Parameter

- DN Size: DN10~DN1000
- Accuracy: ±0.5% of reading
- Structural type: One Type, Split Type
- Pressure class(MPa): 1.0~4.0MPa, up to 25MPa
- Liner: Rubber, PTFE, PFA, F46, Fluorinated silica gel, etc.
- Electrodes: Stainless Steel 0Cr18Ni12Mo2Ti, HastelloyB2/C4, Platinum-Iridium, Ta, Ti
- Housing Material: Aluminum (DN10~DN300), Carbon Steel (DN350~DN100)
- Connection mode: Fixed Flange, Wafer Design
- External control return to zero, external control accumulator reset, forward/reverse flow self-test, on-site Indication accumulation
- Display language: Chinese/English
- Operation Mode: Panel Button
- Electrical interface: 1/2"NPT, M20X1.5
- Explosion-proof: Exd eib mb IIC T3~T6 Gb



AF1000 Series Electromagnetic Flowmeter

— Cost-effective Electromagnetic Flowmeter

Technical Parameter

- DN Size: DN10-DN1000 (contact for customization)
- Accuracy: ±0.5% of reading
- Structural type: One Type, Split Type
- Pressure class: 1.0~4.0 MPa
- Liner: Rubber, PTFE, PFA, F46, etc
- Electrodes: Stainless Steel 0Cr18Ni12Mo2Ti, HastelloyB2/C4, Platinum-Iridium, Ta, Ti
- Housing Material: Aluminum (DN10~DN300), Carbon Steel (DN350~DN100)
- Connection mode: Fixed Flange, Wafer Design
- External control return to zero, external control accumulator reset, forward/reverse flow self-test, on-site indication accumulation
- Display language: Chinese/English
- Operation Mode: Infrared remote control
- Electrical interface: Aviation plug



Metal Tube Floatmeter

HollySys metal tube float flowmeter can measure gases, steam, and liquids. It is suitable for measuring continuous, clean gases and liquids, especially for flow measurement and control under conditions of low flow, low flow rate, and harsh requirements. This instrument is particularly suitable for measuring water, hydrocarbons, corrosion inhibitors and lubricants, chemicals and additives, solutions, superheated steam, air, industrial gases, etc., and is not suitable for measuring media containing solid particles or high viscosity.

AFM2000 Series Metal Tube Floatmeter

—Solid and user friendly

Technical Parameter

- DN Size: DN15-DN150
- Accuracy: ±1.0% FS
- Pressure class: Up to 40MPa
- Operating Temp: -40° C~120° C, special type up to -80° C ~ 350° C
- Power Supply: 24VDC, 220VAC, 3.6V (lithium battery)
- Output Signal: 4-20mA, HART Communications, Two-wire pre-value system
- Explosion-proof: Intrinsic safety type Exia IIC T6 Ga
- Explosion-proof type Exd IIC T6 Gb
- Electrical connection: 1/2"NPT, M20×1.5
- Full metal structure, resistance to seismic, pressure, temperature, corrosion
- Modular design, compact structure, consistent appearance, easy maintenance



Vortex Flowmeter

With wide range, excellent anti-vibration. It is used to measure the flow rate of gases, liquids, and steam in pipelines.

Technical Parameter

- DN Size: DN25 ~ DN600
- Accuracy: ±1.0% of reading (liquid), ±1.5% of reading (Gas)
- Pressure class: Up to 10MPa
- Operating Temp: -40° C~320° C
- Power Supply: 24~36VDC (4-wire system) 3.6V (lithium battery)
- Output Signal: 4-20mA, HART Communications, Original pulse frequency output
- Explosion-proof: Intrinsic safety type Exia IIC T6 Ga
- Explosion-proof type Exd IIC T6 Gb
- Electrical connection: 1/2"NPT, M20×1.5



Temperature

Thermocouple, Thermal Resistance

Technical Parameter

- Temperature: $-40^{\circ}\text{C}\sim 1600^{\circ}\text{C}$
- Accuracy: Grade I for thermocouples, Grade A for thermal resistance
- Wiring Form: Single branch and double branch
- Installation Method: Fixed threads, movable flanges, fixed flanges, and tube connections. Wiring devices: explosion-proof (IP65) and water-proof (IP55)
- Imported thin-film resistance elements are used for the thermal resistance with reliable and stable performance
- Adopt integral drilling type protective casings under the situations with high pressure, high temperature, strong corrosiveness, and strong flushing, which can withstand pressure up to 30 MPa
- Explosion-proof and intrinsically safe products are available
- Application: Usually used with display instruments, recording instruments, computers, and other related devices
- Direct and accurate measurement of the temperature of liquid, steam, gas media, and solid surface in industrial production processes



Integrated Temperature Transmitter

Technical Parameter

- Input Signal: Thermal resistance, thermocouple, millivolt signal, remote resistance signal
- Output Signal: 4~20mA
- Power Supply: 24VDC
- Accuracy: $\pm 0.1\%$ FS
- Temperature Additional Error: $\leq 0.015\%/^{\circ}\text{C}$
- Use with Thermocouple, thermal resistance



Bimetal Thermometer

Technical Parameter

- Temperature: $-80\sim 500^{\circ}\text{C}$
- Accuracy: $\pm 1.0\%$ FS
- Dial outer diameter: $\phi 60\text{mm}$, $\phi 100\text{mm}$, $\phi 150\text{mm}$, $\phi 160\text{mm}$
- Structural Type: Axial type radial type universal type
- Installation Method: No fixtures, Fixed threads, Adjustable outer screw thread, Adjustable inner screw thread, Fixing flange, Ferrule screw thread, Ferrule Flange
- Protection Tube Material: 1Cr18Ni9Ti, 304, 316, 316L, Hastelloy C-276
- Protection Level: IP65



Gas Detection

HollySys provides gas detection devices to various industries such as smelting plants, chemical plants, metallurgical industries, and power industries that may produce hazardous gases. These devices adopts high-performance gas-sensitive sensors and microcontroller technology, combined with excellent SMT manufacturing process. They provide good repeatability, temperature and humidity characteristics, long service life, and easy operation. The gas detection stable and reliable operation, high protection level, long signal transmission distance, and good anti-interference performance.

Point Gas Detector

Technical Parameter

- Gas Detection: Combustible gas, toxic gas, oxygen
- Detection Principle: Catalytic combustion, Electrochemical
- Detection Method: Natural diffusion
- Operating Voltage: $\text{DC}24\text{V}\pm 6\text{V}$
- Accuracy: $\leq \pm 3\%$ F.S (Combustible)
- Respond Time: $\text{T}_{90}<30\text{s}$ (Combustible) $\text{T}_{90}<60\text{s}$ (Toxic)
- Protection Level: IP66
- Explosion-proof: Exdmb IICT6 Gb ExtD mD A21 $\text{T}80^{\circ}\text{C}$
- Output Signal: 4~20mA, 2 relay output, or RS485, 1 rely output
- Electrical interface: NPT3/4
- Maximum distance between detector and controller: $\leq 1200\text{m}$



Explosion-proof Sound and Light Alarm

Technical Parameter

- Protection Level: IP66
- Housing Material: SUS304
- Operating Voltage: $\text{DC}24\text{V}\pm 6\text{V}$
- Operating Current: $\leq 60\text{mA}$
- Operating Sound: $\geq 85\text{dB}+3\text{dB}$
- Installation Thread: M22x1.5
- Explosion-proof: Exd mb IIC T6 Gb



Portable Gas Detector

Technical Parameter

- Gas Detection: Combustible gas, toxic gas, oxygen
- Detection Principle: Catalytic combustion, Electrochemical, Infrared, Optical ionizing
- Alarm method: Sound, light, vibration
- Operating Voltage: $\text{DC}3.7\text{V}$ 1880mAh
- Operating Time: Combustible gas $\geq 8\text{h}$ continuous, toxic gas $\geq 300\text{h}$ continuous (20°C , no alarm)
- Protection Level: IP66
- Explosion-proof: Exia IIC T4 Gb Exib D21 $\text{T}130$
- Weight: 190g (including battery)



Single Loop Gas Alarm Controller



Technical Parameter

- Operating Voltage: AC220V±15% 50Hz±1%
- Power Consumption: ≤ 5W/way
- Output Voltage: DC24V
- Matchable Detector: Detector with standard 4~20mA output
- Indicator Method: LED digital display concentration data
- Alarm Method: LED indicator alarm or alarm status sound and light alarm
- Output Signal: DO RS485 (standard), AO: 4~20mA (optional)
- Contact Output: Low alarm frequent on output, high alarm frequent on output, stuck-open output
- Installation Method: Wall mounted, Cabinet

Programmable Single Loop Gas Alarm Controller



Technical Parameter

- Operating Voltage: AC220V±15% 50Hz±1%
- Power Consumption: ≤ 10W/way
- Output Voltage: DC24V±6V
- Matchable Detector: Detector with standard 4~20mA output
- Number of Attached Detectors: Analog detector (4~20mA output) ≤ 8 way
- Indicator Method: The LEDs indicate the detector status: LCD shows alarm concentration; Various alarm sounds and light indicate fault status.
- Alarm Method: Sounds and light alarm; LCD shows gas concentration
- Output Signal: Digital: RS485, Analog: 4~20mA, 3-way relay output
- Contact Output: Low alarm frequent on output, high alarm frequent on output, stuck-open output
- Installation Method: Wall mounted, Cabinet

KB500 Gas Alarm Controller



Technical Parameter

- Main Power: AC220V±6V
- Backup Power: DC24V±3V Rechargeable lead acid batteries
- Power Consumption: ≤ 20W
- Output Voltage: DC24V±6V
- Digital Detector Channel: 2-way (RS485)
- Digital Upload Channel: 2-way (RS485), MODBUS support
- Digital Detector Output Current: Voltage: 27V±3V, each protection circuit ≤ 2.5A
- Total Output Protection Current: ≤ 5A
- Passive Relay Output: 6 channels
- Relay Contact Capacity: ≤ 5A
- Environmental Conditions: Temperature: -10° C to 50° C; Humidity: ≤ 95% (no condensation)
- Display Method: 4.3" color LCD and status indicator
- Alarm Method: Sound (sound pressure level is above 65dB and below 100dB at a distance of 1 meter), light alarm
- Dimensions: 370mm×246mm×95mm (excluding mounting bracket)
- Mounting Method: Wall-mounted

Safety Barrier

HollySys safety barrier adopts a circuit structure that electrically isolates the input, output, and power supply, meeting the requirements of intrinsically safe limiting energy. It effectively isolates the field circuit signal in the hazardous areas from the safety circuit signal in the safe area. The barrier adopts the latest circuit technology to achieve lower power consumption, stronger resistance to EMC interference, and higher reliability. Its ultra-thin design, with a thickness of only 12.5mm, saves significant installation space.

AM1000EX/AM1000EX.SIL Series Isolation Safety Barrier

—Ultra-thin design. Certified by Germany TUV Rheinland. Safe choice.

Technical Parameter

- Installation Method: DIN35mm Standard Rail
- Input Signal: Various analog, digital, temperature signals
- Channel Number: 1 input 1 output, 1 input 2 output, 2 input 2 output
- Power Supply Method: Independent power supply (20~35V)
- Safety Isolation: Isolation safety voltage of safe side and hazardous side 250VAC
- Electromagnetic Compatibility: Conform to GB/T18268 requirement (IEC61326-1)
- Continuous Operating Temperature: -20° C~60° C
- Optional SIL2/SIL3 certified products



AM2000EX Series Isolation Safety Barrier

—Leading position in the world; especially suitable for medium and large projects

Technical Parameter

- Base installation
- Bus power, online hot swapping
- Patented design on exterior structure with international standard. It is capable of receiving various inputs
- Channel Number: 1 input 1 output, 2 input 2 output.
- Safety Isolation: Isolation safety voltage of safe side and hazardous side 250VAC
- Electromagnetic Compatibility: Conform to GB/T18268 requirement (IEC61326-1)



AM3000EX Series Isolation Safety Barrier

—Leading position in the world; exclusive use for HollySys OCS

Technical Parameter

- Base installation
- Bus power, online hot swapping
- International standards exterior structure design that gains the design patent
- Input Signal: Support AI/AO/DI/DO adaptive, TC/RTD Signals
- Channel Number: 1 input 1 output
- Safety Isolation: Isolation safety voltage of safe side and hazardous side 250VAC
- Electromagnetic Compatibility: Conform to GB/T18268 requirement (IEC61326-1)
- Continuous operating temperature: -20° C~60° C



AMG1000 Series Isolator

Technical Parameter

- Input Signal: Analog signal, digital signal, Thermocouple signal, Thermal resistance signal, Frequent signal
- Channel Number: 1 input 1 output, 1 input 2 output, 2 input 2 output
- Installation Method: DIN35mm Standard Rail
- Function: Signal isolation transmission, Signal conversion, Power distribution to field instruments
- Power Supply Method: Independent power supply (20~35V)
- Power Protection: Reverse power protection
- Isolation Voltage: 1500VAC; Imin
- Electromagnetic Compatibility: Conform to GB/T18268 requirement (IEC61326-1)
- Continuous Operating Temperature: -20° C~60° C
- 7.6mm Ultra-thin design to save up large installation space
- Flame retardant plastic shell



AML 1000 Series Surge Protection Device

Technical Parameter

- Type: Signal, DC power, AC power
- Installation Method: DIN35mm Standard Rail
- Maximum Discharge current: Signal type and DC power type is up to 10kA, AC power type is up to 20kA
- Protective device: Thermocouple, Thermal resistance, RS485 Signal, 2-wire/3-wire transmitters, switch, frequency amount, 24VDC electric equipment, phone/network/video interface
- Continuous Operating Temperature: -20° C~80° C



ASR1000 Series Safety Relay

Technical Parameter

- Voltage Range: 16V~35VDC
- Input Current: ≤ 35mA (24VDC)
- Input Device: Safety switch, SIS DO signal
- Contact Capacity: 1N/0, 1N/C, 1N/0+1N/C
- Switch capacity: 5A/250V AC; 5A/24VDC
- Attraction Buffer, Free Buffer and Recovery Time: ≤ 30ms
- Electromagnetic Compatibility: Conform to GB/T18268 requirement (IEC61326-1)
- Operating Temperature: -20° C~60° C
- Safety Certificate: German TUV certificate; Optional SIL2, SIL3 certified products with low power consumption design that enables dense installation for reliable long-term operation



Instrument Panel Cabinet

GGD AC Type Low Voltage Switchgear

The GGD AC low-voltage switchgear is designed for power users such as power plants, substations, factories, and mines with an AC frequency of 50Hz, a rated working voltage of 380V, and a rated working current of up to 1600A in distribution systems for power, lighting, and distribution equipment for energy conversion, distribution, and control. The cabinet is designed as a new type of low-voltage distribution cabinet based on the requirements of the Energy Department, power users, and design departments, following the principles of safety, economy, rationality, and reliability. This product features high breaking capacity, good dynamic and thermal stability, flexible electrical solutions, convenient combination, strong series and practicality, novel structure, and high protection level. It can be used as a replacement for set of low-voltage switchgear. The GGD AC low-voltage switch cabinet conforms to IEC439 "low-voltage switchgear set and control equipment", GB7251 "low-voltage switchgear set" and other standards.



Industrial Automation Instrument Panel

Industrial automation instrument panel serves as a centralized device for process automation control and operation. It is used to assemble the devices of design regulation including designated instruments, regulators, operating devices, signal interlocking devices, wiring terminals, operating switches, lighting devices onto the instrument panel or operations station. Operating with primary instruments and actuators installed on site indicates, records, and adjusts industrial parameters of the production process to achieve remote automatic or manual control.

The industrial automation instrument panel, together with various instrument panels (including secondary instruments, on-site primary instruments, regulators, actuators, and thermodynamic laboratory instruments), electrical components, internal wiring and pipelines, constitutes a control system device or a complete assembly. It is widely used in industrial production process control systems such as refining, chemical industry, light industry, textile, national defense, metallurgy, electric power, aviation, shipbuilding, medicine, and machinery, forming various sizes of control rooms.





Typical References of HollySys

➡ Power Industry

User Name	Project Name
Jinan Thermal Power Co., Ltd. North suburb thermal power plant	3×130t/h pulverized coal boiler control system transformation project
Baoding Development Investment Thermal Power Co., Ltd.	Baoding old residential district central heating transformation project power automation supply and installation for heat exchange station
Xiantao Green Oriental Environmental Protection Power Generation Co., Ltd.	Xiantao Green Oriental waste-to-energy project DCS+ Instrument
Neiqiu County Shunda Power Generation Co., Ltd.	2×75t/h CFB+2×12MW unit project
Shandong Xinwen Mining Group Paste Industry Company	3×150T/H, 3×25MW circulating fluidized bed furnace control system
Aluminum Co. of China Ltd. Shanxi Branch	800,000 tons of alumina 3×220t/h CFB
Guangdong Zhongshan Textile Printing and Dyeing Factory	35T/H×2-6000KW cogen engineering
The power plant of Bengang Plate Co., Ltd.	#21 unit haqi CC50 DEH, DCS, ETS, TSI, instrument, electrical transformationand design
Shanxi Tianshi Power Co., Ltd.	2× 25MW unit DCS transformation project
Fujian Yanshi Power Generation Co., Ltd.	Phase II of the Project 2*300MW unit water area control system and auxiliary workshop
Hunan Chuangyuan Power Generation Co., Ltd.	2×300MW unit auxiliary network and water network control system
Xinjiang Huadian Kashgar Phase II Power Generation Co. Ltd.	#1. #2 unit DCS upgrade project of DCS
Luoyang Thermal Power Co., Ltd.	DCS system and instrument for 4*58MW hot water boiler of Dongqu Heat Source Plant
Zalantun New Town Central Heating Co., Ltd.	DCS, PLC system and instrument of urban 2nd heat source central heating project
Fujian Fengquan Environmental Protection Equipment Co., Ltd.	Anxi Hutou waste incineration BOT project (100T/D) incineration line DCS monitoring system
Zhejiang Wenling waste-to-energy plant	Wenling waste-to-energy project (2×350t/d) production line DCS and instrument
Chengde Zhaofeng Steel Group Co., Ltd.	30MW gas power generation project
Hebei Huaxi Steel Co., Ltd.	Hebei Huaxi Steel 55MW gas power generation DCS+ instrument
Hebei Anfeng Steel Co., Ltd.	Anfeng Steel 2x100MW power generation instrument project
Yunnan Yuxi Xianfu Steel (Group) Co., Ltd.	12WM blast furnace gas power generation DCS system and instrument
Henan Xuchang Xiangcheng County Capital Chemical Co., Ltd.	The first 55t gas boiler project DCS and I&C general contractor in Jianglian Henan
Juxian Fengyuan Thermal Power Co., Ltd.	25MW steam engine DCS and thermal instrument project
Huaxin Cement (Yichang) Co., Ltd.	3500+2300t/d clinker production line waste heat power generation engineering instrument control general contractor
Hunan Chuangyuan New Materials Co., Ltd.	9MW rotary kiln waste heat generator set thermal control instrument and control general contractor
Jiangsu Qingshi Cement Co., Ltd.	7.5MW cement waste heat power generation I&C general contractor
Huaxiao Resources Co., Ltd.	Jidong cement Bishan, Hechuan, Qixin 5000t/d clinker production line and attached waste heat power generation project
Huaibei Wangneng Environmental Protection Energy Co., Ltd.	Huaibei Wangneng two new boilers and steam turbines project instrument general contractor
Hebei Huafeng Coal Chemical Power Co., Ltd.	Hebei Huafeng coal-chemical electric gas-gas turbine combined power generation project remote transmission instrument

➡ Petrochemical Industry

User Name	Project Name
Qingdao Huicheng Petrochemical Technology Co., Ltd.	DCS and instrument engineering contract for 20,000 tons/year resurrection catalyst
Kuitun Dayi Petrochemical Technology Co., Ltd.	DCS and instrument for comprehensive use of Ethylene tar
CNOOC Guangdong LNG Co., Ltd.	CNOOC Guangdong LNG instrument
Shengli Oilfield Gudong Oil Production Plant East quad	DCS and instrument project contract For Shengli oilfield gudong oil production plant joint station
Changsha Zhongcheng Petrochemical Co., Ltd.	DCS and instrument contract For 4000T/A fine grease new device distributed control system
Guangdong Xinhua Yue Petrochemical Co., Ltd.	30,000 tons/year pyrolysis gasoline styrene extraction project
China Petroleum & Chemical Corporation Lubricant Yanhua Branch	Sporadic material procurement for China Petroleum & Chemical Corporation Lubricant Yanhua Branch
Dongguan Ronggao Waste Oil Treatment Co., Ltd.	400,000 tons of heavy oil coking unit
Dagang Oilfield Group Co., Ltd.	Dagang Oilfield calcined coke waste heat captive power generation and instrument
Kuitun Dayi Petrochemical Technology Co., Ltd.	DCS and instrument for comprehensive use of Kuitun Dayi petrochemical ethylene tar
Chongqing Pengwei Petrochemical Co., Ltd.	PTA project main equipment DCS system power cabinet and vibration monitoring cabinet
CNOOC Guangdong LNG Co., Ltd.	ABB differential pressure transmitter procurement agreement for Zhuhai natural gas liquefaction project
CNOOC Guangdong LNG Co., Ltd.	Differential pressure temperature transmitter procurement agreement for Zhuhai natural gas liquefaction project
Huzhou Jinshan Science and Technology Petrochemical Technology Co., Ltd.	Automatic control system engineering contract for tank farm project
Dalian Kaimi Chemical Technology Development Co., Ltd.	Dalian Kaimi chemical gas rotary kiln control system and instrument procurement contract
Xi'an Institute of Modern Chemistry	Xi'an Institute of Modern Chemistry HFO-1234yf mode electrical instrument project
Ningxia Shangneng Petrochemical Co., Ltd.	100,000 tons of oil and gas associated comprehensive utilization project
Henan Oilfield Oil Construction Engineering Construction Co., Ltd.	Syrian 5000m³ tank project automatic control and instrument procurement contract
Sichuan Xinhuaixin Petrochemical Co., Ltd.	Sichuan Xinhuaixin Petrochemical Co., Ltd. cyclohexane project
Economic and Commercial Bureau of Jiuzhaigou County, Aba Prefecture	Guangxi Guanghui Cryogenic Equipment Co., Ltd. Jiuzhaigou Gas Equipment Reconstruction Project
Guangxi Tian Dongtian Petrochemical Co., Ltd.	Guangxi Guanghui Cryogenic Equipment Company Hunan Chengxin Gas Instrument Project Contract
Guangxi Guanghui Cryogenic Equipment Co., Ltd.	Stocking and refining petrochemical lubricating oil cutting project
Southwest Petrochemical Plant	Oil and liquefied gas storage tank hazard control project
Shandong Shouguang Luqing Petrochemical Co., Ltd.	Shandong Shouguang Luqing Petrochemical Co., Ltd. tank farm and thermoelectric engineering DCS system

⇒ Chemical Industry

User Name	Project Name
Lianzhou Zhonghui New Materials Co., Ltd.	Nano calcium carbonate project DCS, instrument, telecommunications complete equipment procurement and installation general contract
Hebei Zhuotai Fertilizer Co., Ltd.	Hebei Zhuotai Fertilizer complete set of supply contract
Suqian Covestro Chemical Co., Ltd.	Phase II of the technical transformation project of the North and South Plant
China Agricultural Development Henan Agrochemical Co., Ltd.	Phases I, phase II of the automation transformation instrument project of Henan Agrochemical 1st Workshop
Baofeng County Jieshi Coal Chemical Co., Ltd.	Baofeng County Jieshi Coal Chemical Co., Ltd. electrical instrument and installation project
Hubei Xinlantian New Materials Co., Ltd.	Hubei Xinlantian D30 project, D90 project complete DCS and instrument installation
Leshan Fupeng Chemical Materials Co., Ltd.	Leshan Fupeng Chemical 50,000 tons/year methane chloride plant field instrument complete project
Jiujiang Zhongke Xinxing New Materials Co., Ltd.	10,000 tons/year fiber grade ultra-high molecular weight polyethylene plant DCS, SIS instrument complete set project
Shandong Renate Chemical Co., Ltd.	30,000 tons/year initiator project
Shijiazhuang Ruikai Chemical Co., Ltd. Hongrun Branch	Hongrun Chemical Phase II automation project
Hengyang Golden Leaf Zhisen Tobacco Sheet Co., Ltd.	5000 tons/year tobacco flake production line
Ruyuangdong Sunshine Magnetic Material Co., Ltd.	Lithium iron phosphate material for lithium battery project
Anhui Polymerization Radiation Chemical Co., Ltd.	DCS and instrument installation projects with annual output of 10,000 tons of highly absorbent resin
Langfang Jianlong Acid Production Co., Ltd.	300,000 tons of sulfuric acid project
Shandong Zhaohe New Material Technology Co., Ltd.	30,000 tons of aluminum fluoride supply project
Jiangsu SOPO (Group) Co., Ltd.	600,000 tons/year acetic acid gas-making transformation system
Jiangsu Suqian Lvling Chemical Company	100,000 t/a sulfuric acid project
Qinghai Innovation Mining Development Co., Ltd.	180,000 tons/year ammonia synthesis engineering DCS system and ammonium phosphate plant automatic control system transformation
Guangxi Pingguo Kite Biochemical Co., Ltd.	80,000 tons of alcohol relocation project
CNOOC Petrochemical Co., Ltd.	Trioxane Synthesis Technology Project
CNOOC Energy Investment Co., Ltd.	Hainan 60,000 tons pf biodiesel project complete instrument
Jizhou Yinhai Chemical Fertilizer Co., Ltd.	1400 alcoholization system and 1200 methanol DCS and instrument
Shanxi Yaxin Coal Coking Co., Ltd.	1 million tons/year coking project
Jining Zhengyuan Coal Chemical Co., Ltd.	80,000 tons of refined benzene project
Pingdingshan Coal Industry (Group) Ruzhou Electrochemical Co., Ltd.	450,000 tons/year calcium carbide project coordination unit lime kiln system
Shaanxi Hengyuan Coal and Power Group Electrochemical Co., Ltd.	2×33000KVA closed calcium carbide furnace project DCS system, instrument and installation
Xinjiang Hami Yili Coal Chemical Co., Ltd.	DCS control system and instrument system project of 600,000 tons/year coking engineering
Beijing Research Institute of China Shenhua Coal to Liquids Chemical Co., Ltd.	Shenhua lignite pyrolysis pilot plant hot semi-coke hoist electrical and control system project

⇒ Food and Pharmaceutical

User Name	Project Name
Hubei Beitian Biotechnology Co., Ltd.	Meitian Biotech EUGMP project
Dongying Daoyi Biomedical Technology Co., Ltd.	SPB series product project/workshop 202 falling film absorption DCS and instrument project
Jiangxi Ruiya Pharmaceutical Co., Ltd.	Pharmaceutical Intermediates Project
Jiangsu Yutian Pharmaceutical Co., Ltd.	Lianyungang Yutian Pharmaceutical
Beijing Tongjida Pharmaceutical Co., Ltd.	DCS, instrument project
Inner Mongolia Yipin Biotechnology Co., Ltd.	Synthetic ammonia valves, instrument projects
Weihaidisu Pharmaceutical Co., Ltd.	Workshop B2 automation control system
Xinxiang Haibin Pharmaceutical Co., Ltd.	Solvent recovery rectifying tower instrument and monitoring project
Anhui Hejia Medical Supplies Technology Co., Ltd.	Phase III of the total contract project
Guangxi Pingguo Kaite Biochemical Co., Ltd.	8 tons of alcohol relocation project
Hubei Hongyuan Pharmaceutical Technology Co., Ltd.	Glyoxylic acid section/guanine section/acetaldehyde section/glyoxal, nitrification, formamide project
Jiangsu Baji Pharmaceutical Co., Ltd.	North workshop and south district automation renovation project
Shandong Huihai Pharmaceutical Chemical Co., Ltd.	Workshop 2 / workshop 3 / workshop 5 transformation DCS and instrument
Shandong Xinhua Pharmaceutical Co., Ltd.	Chlorone pilot project DCS system and instrument engineering contract
Zhengzhou Yongfeng Biological Fertilizer Co., Ltd.	Workshop renovation DCS+SIS+ instrument general contract project
Ningxia Qiyuan Pharmaceutical Co., Ltd.	General contract project of technical upgrading of methanol rectification tower system
Hubei Yuyang Pharmaceutical Co., Ltd.	New project of pharmaceutical intermediates with annual output of 900 tons
Shiyao Xinhui (Tianjin) Pharmaceutical Technology Co., Ltd.	Safety automation transformation project
Shandong Lukang Pharmaceutical Group Co., Ltd.	SY-16 project DCS and instrument project / SS-08 project / SY09 fermentation automatic control DCS and instrument project
Inner Mongolia Fufeng Biotechnology Co., Ltd.	Xanthan gum plant 2,3 project
Shandong Jincheng Pharmaceutical Group Co., Ltd.	Workshop 5 transformation project DCS and instrument project
Chia Tai Qingchunbao Pharmaceutical Co., Ltd.	DCS system and instrument project for injection Chinese medicine extraction
Xinfa Pharmaceutical Co., Ltd.	DCS and instrument for extraction tower tank farm
Livzon Group (Ningxia) Pharmaceutical Co., Ltd.	201-2 workshop automatic control project
Kanglong Chemical (Tianjin) Drug Preparation Technology Co., Ltd.	Kanglong Chemical (Tianjin) Pharmaceutical Outsourcing Phase II Projec
Henan Hengrui Starch Technology Co., Ltd.	15,000 tons of starch modified starch new DCS and instrument project
Weihai Dijia Pharmaceutical Technology Co., Ltd.	Workshop DCS system and instrument
Jiangxi Dadi Pharmaceutical Co., Ltd.	DCS and instrument project