国机集团 SINOMACH

Intelligent Analyzer



Chongqing Chuanyi Analyzer Co., Ltd.

川仪股份 CYAC

ABOUT US

Chongqing Chuanyi Analyzer Co., Ltd. was established in 1969. Which is a protessional manufacturer of analysis instruments in China. It's a national high-tech enterprise and a wholly-owned subsidiary of Chongqing Chuanyi Automation Co., Ltd., a well-known instrument manufacturer in China.

The company has been devoted in technical research. product development, manufacturing and engineering application more than 50 years. The product has obtained 98 patents, inckuding software copyrights, invention patents, utility model patents, design patents, etc. Gas analyzer& gas analysis system, Water analyzer & water analysis system and Laboratory analyzer are widely used in petroleum, chemical industry, environmental protection, building materials, metallurgy, light industry, power, pharmacy, medical and health and scientific research fields, etc.



Development History

1969.6

Sichuan Analyzer Factory Founded in Chongqing moved from Nanjing three-way;

1978.3

Magnetic mechanical oxygen analyzer was awarded by National Scientific Conference on March,1978.

1983.12

cooperated with world famous enterprise H&B (ABB), imported infrared analyzer, paramagnetic oxygen analyzer and ultraviolet analyzer;

2013.1

the company was identified as analytical instruments Chongqing Engineering Technology Research Center;

2018.8

the company moved from both Nanping district and Chengjiang plants to Yubei Industrial Park;

2022.7

the Ministry of Industry and Information Technology awarded the title of "Little Giant" enterprise.

CUSTOMER LIST

Petroleum, Chemical Industry

- Wanhua Chemical Group Co., Ltd.
- China Petrochemical Corporation
- China National Petroleum Corporation
- China National Offshore Oil Corporation

Metallurgy and Steel Industry

- China Baowu Steel Group Corporation Limited
- China Minmetals Corporation
- HBIS Group Hansteel Company
- Tsingshan Holding Group

Cement Industry

- Anhui Conch Cement Co., Ltd.
- China National Building Material Group Co., Ltd.
- Huaxin Cement Co., Ltd.
- Jinyu Jidong Development Group Co., Ltd.

Power Industry

- China National Technical IMP.EXP.CORP.
- SINOSTEEL MECC
- Shanghai Electric Group
- China Western Power Industrial Co., Ltd

FTIRCEMS

- China Everbright Environment Co., Ltd.
- Grandblue Environment Co., Ltd.
- Canvest Environmental Protection Group Co., Ltd.
- Chongqing Sanfeng Covanta Environmental Industry Co., Ltd.

Biology Pharmacy, Light Industry

- Qilu Pharmaceutical Co., Ltd
- Dikang Pharmacy Co., Ltd
- Lianyungang Bailun Biotechnology Co., Ltd.
- Guizhou Yunfeng Wine Stock Co., Ltd.

Removable Monitoring Vehicle

- Yunnan Electric Power Test Research Institute
- Guizhou Electric Power Test Research Institute
- Fujian Electric Power Test Research Institute
- Jiangxi Electric Power Test Research Institute

Scientific Research, Administration

- Peking University
- Sichuan University
- Chengdu Organic Chemistry Institute of China Science Academy
- CNPC Northwest Sichuan Natural Gas Institution

Air-separation Industry

- HangZhou Oxygen plant group Co., Ltd.
- Sichuan Air Separation Instrument Co., Ltd.
- Kaifeng Air Separation Group Co., Ltd
- Hangzhou Fortune Gas group Co., Ltd.

中国石油 | 中国石化 SINOPEC | 中国海油 CNOOC | WANHUA
CONCH 海螺水泥 | CNBM 中国建材 | LafargeHolcim | 中国宝武
鞍钢集团 ANSTEEL | 首钢集团 SHOUGANG GROUP | HONGSHI | 塔牌集团
天瑞集团 TIANRUI GROUP | 沙钢集团 SHAGANG GROUP | HBIS 河钢集团 HBIS GROUP | 国家能源集团 CHN ENERGY
华新水泥 | 山水集团 SUNNSY SUNNSY GROUP | TCC | 上海电气 SHANGHAI ELECTRIC
DEC 东方电气 | 大唐集团 Datang Corporation | HNEC 开封空分集团 | 杭氧 HANGYANG
四川空分集团 | HUAYI 华谊集团 | 中国天辰 CHINA TIANCHEN | SE 深能环保
光大环境 EVERBRIGHT ENVIRONMENT | 康恒环境 SUS ENVIRONMENT | 昊源化工 | 航天长征化学
湖北宜化 HUBEI YIHUA | SANFENG COVANTA | 瀚蓝 grandblue | 碧水源

Honor



Company Honor Certificate

- Innovation Fund 10th Anniversary Excellent Enterprise Certificate
- Innovation Fund Key Cultivation Enterprise Award
- National Workers Pioneer Awards
- China Analytical Instrument Development Contribution Award
- Chongging Energy Saving and Emission Reduction Advanced Practical Technology Award
- Chongqing City Civilization Unit
- Chongqing Enterprise Technology Innovation Award
- National “Little Giants” Enterprises
- High and New Technology Enterprise Certificate
- Certificate of Enterprise Credit Grade (AAA)
- Intelligent instrumentation industry intellectual property alliance member
- ISO9001 Quality Management System Certification
- ISO14001 Environment Management System Certification
- IS045001 Occupational Health and Safety Management System Certification



Product Honor Certificate

- BO2000 Series Gas Analyzers GOT Chongqing Municipal Science And Technology Progress Second Prize
- PA600Ex Series Flameproof Analyzers GOT Chongqing Municipal Science And Technology Achievements Award
- PS7000 Series Process Analysis System GOT Chognqing Municipal Key New Products
- PS7000 Series Process Analysis System Got Chognqing Municipal High-tech Products
- PS7400 Continuous Emission Monitoring System (CEMS) Got Certcationina of China Environmental Protcton Product (CCEP)
- PS7000 Series Process Analysis System GOT Second Prize of China Machinery Industry Science and Technology Award
- PA500 Series Gas Analyzers GOT Bronze Medal of the First National Machinery Industry Design Innovation Competition in 2020
- CE Certification
- Certification of China Environmental Protection Product (CCEP)

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Gas Analyzer

PA500 Series Intelligent Gas Analyzer
LA series Laser Gas Analyzer
PA600Ex Series Flameproof Intelligent Gas Analyzer
BO2000 Series Modular Gas Analyzer
PS7100 Air Separation Process Analysis system
PS7200 Nuclear Power Process Analysis system
PS7300 Petrochemical Process Analysis System
PS7400 Continuous Emission Monitoring System
PS7500 Cement Kiln Process Analysis system
PS7600 Metallurgy process Analysis system
PS7700 Energy Gas Process Analysis System
PS7800 Air Quality Monitoring System
PS7900 Removable Testing and Monitoring System
Field Analysis System

PA500 Series Intelligent Gas Analyzer



- Optional analysis principle: infrared, paramagnetic mechanism oxygen, thermal conductivity, trace oxygen. trace water and solid oxygen multiple analysis technique
- Infrared sensor adopts double-layer four-chamber construction, effectively resist cross interference
- Full digital modular analyzer
- Passed the IEC61000 electromagnetic compatibility test
- The measured components include CO、CO_2、CH_4、SO_2、NO、N_2O、NO_2、NH_3、H_2、H_2O、O_2、Ar, etc

PA600Ex Series Flame-proof Intelligent Gas Analyzer



- Optional analysis principle: infrared, paramagnetic mechanism oxygen, thermal conductivity, trace oxygen. trace water and solid oxygen multiple analysis technique
- Integrated design with all parts mounted in one flameproof cabinet
- Cast aluminum flame-proof chassis, touch keyboard operation outside the glass window, Maintenance is safe, fast and convenient
- Gas and dust explosion-proof grade: Ex db IIC T4 Gb，Ex tb IIIC T100℃ Db
- The measured components include：CO、CO_2、CH_4、SO_2、NO、N_2O、NH_3、H_2、H_2O、O_2、Ar, etc

LA300 Flame Proof Laser Gas Analyzer



- Tunable semiconductor laser spectroscopy
- In-situ installation and maintenance less, fast response, high precision
- Gas and dust explosion-proof certification, SIL2 certification
- Long optical path, high increase light transmission path design
- Gas and dust explosion-proof certification, Ex db IIC T6 Gb, Ex tb IIIC T85℃ Db
- The measured components: CO_2、CO、O_2、HCl、HF、H_2S、CH_4、NH_3, etc

PA700 Oxy-hydrogen Online Gas Analyze



The instrument adopts the separated-type design online gas analyzer. The hydrogen transmitter adopts the solid-state thin film hydrogen sensor, and the oxygen transmitter adopts the diffusion type electrochemical oxygen sensor. The instrument can continuously and automatically measure, indicate, and record the volume concentration of gases such as H2 and O2 in the process flow. It can be applied for Petroleum, Chemical, Power Plants, Nuclear Power, Hydrogen Energy, Scientific research and other fields.

Hydrogen Transmitter Features

- No background gas cross interference;
- The temperature control working mode of the sensor has little effect on the medium temperature;
- Fast sensor response time;
- Hydrogen transmitter is based on physical principles, with negligible sensitivity attenuation

Oxygen Transmitter Features

- The lifespan of the oxygen sensor in air can reach 3 years under the standard conditions;
- Sensor do not require the addition of electrolyte for long-term operation;
- The sensor operation adopts temperature compensation method, and the preheating time is not exceed 15 minutes.

Controller Features

- Fully digital design;
- Output diagnostic information, current standard signal, and switch signal;
- The instrument components are modularized, and easy for maintenance and repair.

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PGC600 Industrial Process Chromatograph





PGC-600 series explosion-proof process gas chromatograph integrates highly reliable chemical analysis performance and industrial real-time operation system. That is specially designed for flammable and explosive hazardous environment in petrochemical industry, coal chemical industry, natural gas industry and special industry. With excellent stability and safety reliability, to provide accurate process control and safety monitoring solutions for complex working conditions.

APPLICATION

- Based on the highly stable Linux embedded system, the self-diagnosis function can monitor the system status in real time.
- Equipped with modular EPC (electronic pressure control), and the control accuracy is better than 0.001 psi.
- Support different sample injection methods including high pressure liquid, high temperature sample and various gas.
- It can adapt to multiple high-performance detectors such as FID/TCD/FPD/PDHID.
- Built-in large-capacity storage, which can save original analysis data of 365 days+.

DT600/DT600Ex Dust Concentration Detector



Innovative laser scattering analysis techniques and MIE algorithms are used to monitor primarily for low to moderate dust concentrations.

- Semiconductor laser scattering technology with high precision and good stability
- High sensitivity, strong anti-interference capability can be adapted to various complex environments
- Automatic calibration of full optical path
- One-side installation and easy for maintenance
- Gas and dust explosion-proof grade: Ex db IIC T6 Gb, ExIIIC T100°C Db

PS7000 Series Process Analysis System

PS7000 Series Process Analysis System has the characters as advanced design, reliable operation, high automation level, less maintenance and long life, eto.

According to the different application industry, it can be sorted as:

- Field Analysis System
- PS7100 Air-separation Process Analysis System
- PS7200 Nuclear Power Station Process Analysis System
- PS7300 Petrochemical Process Analysis System
- PS7400 Continuous Emission Monitoring System
- PS7500 Cement Kiln Process Analysis System
- PS7600 Metallurgical Process Analysis System
- PS7700 Energy Gas Process Analysis System
- PS7800 Air Quality Monitoring System
- PS7900 Removable Testing and Monitortig System
- High Temperature Sampling Probe



PS7400 Continuous Emission Monitoring System





Monitor the concentration and total emissions of gaseous pollutants and particulate matter emitted from pollution sources.

- Reduce the loss of SO_2, High measurement accuracy
- Solve the Measuring interference to SO_2、NO、NO_2 and dust caused by high humidity of the flue gas
- Lower maintenance and lower cost

PA560 Explosion-proof Gas Analyzer

PA560 Explosion-proof Gas Analyzer is an online gas analyzer designed for hazardous areas. The instrument is composed of PA560-CU explosion-proof controller and PA560-GXH flameproof infrared gas analysis transmitter with compact structure, aiming at safely and accurately completing gas monitoring tasks under complex working conditions.



- Explosion-proof controller can be built-in thermal conductivity, magnetic machine oxygen, electro-chemical oxygen, trace water and other analysis modules; Combination of thermal conductivity hydrogen, magneto oxygen and infrared gas analysis. There are up to 5 measuring components internal hazardous area cross sensitivity correction in one analyzer, which can complete the gas measurement work under complex working conditions.
- It has dual certification of Ex de IIC T4 Gb, Ex tb IIIC T100 °C Db gas explosion-proof and dust explosion-proof.
- Measuring components: CO、CO_2、CH_4、SO_2、NO、N_2O、NH_3、C_2H_2、C_2H_4、C_2H_6、C_3H_8、C_4H_{10}、H_2O、O_2、H_2、Ar、He Etc.

Analysis House System

The analysis house system can meet the requirements of temperature, humidity, dustproof, explosion-proof and other requirements of the process analysis system. It can be equipped with air, steam, water and other public works, HVAC system, various safety detection and safeguard measures according to the requirements of the site. The explosion-proof level is not lower than ExdIICT4.







Water Analyzer

7013 Industrial Conductivity Analyzer
7023 Industrial PH/ORP Analyzer
LEX2000/LEX2000Ex Series Water Quality Analyzer
7091 Sodium Ion/Sllica/Phosphate/Hydrazine Analyzer
WS2000 Series Liquid Analysis System
WS3000 Series Water Quality Analyzer

LEX2000 / LEX2000Ex Serise Water Analyzer



LEX2000 intelligent controller is a universal dual-channel and multi-parameter controller, which is matched with different sensor modules, and can be used for the measurement of pH/ORP, conductivity, dissolved oxygen, turbidity and other water quality parameters.

LEX2000Ex is the two-wire intrinsically safe and explosion-proof water quality analyzer, which can be used for pH/ORP and conductivity measurement. The controller conforms to NEPSI/Ex ib/IIC/T4/Gb explosion-proof standard and can be used in working conditions with explosion-proof requirements;

- Modular design, general controller
- Intelligent self-diagnosis and operation&maintenance prompt
- High-strength mechanical structure, good protection and easy for installation
- Optional analog output+digital output (LEX2000 can select Modbus RTU and HART; LEX2000Excan select HART output)
- Enhanced EMC design, strong anti-interference capacity

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7091N Sodium Analyzer



7091 Sodium Analyzer can measure the sodium ion concentration,is widely used for Boiler water quality monitoring in power plants,chemical industry,etc.

- Large size LCD
- High performance pH adjust system
- Automatic Temperature Compensation
- Intelligent self-diagnosis system

7091 Serise Water Analyzer (Silicon/Phosphoric Acid Root /Hydrazine Liquid Analyzer)

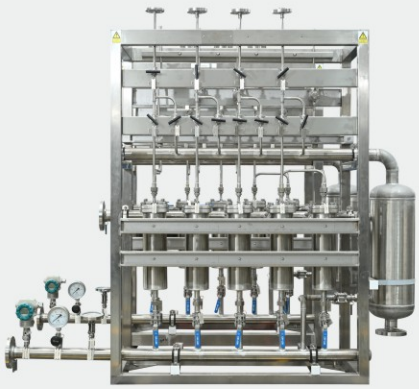
7091 series analyzers, including 7091A silica analyzer, 7091B phosphate analyzer and 7091C Hydrazine analyzer, base on colorimetric principle, are widely used in addition to salt water, boiler feed water, boiler, the condensate water, circulating water monitoring.

- Modular design, Convenient maintenance
- The Sample cell has compact structure and easy to maintain
- Background silicon compensation and sample blank to eliminate interference and drift
- Automatic calibrated and manual calibrated
- Instrument self-diagnosis and no sample alarm, convenient for troubleshooting

WS2000 Series Liquid Analysis Integrated System

Instrument is widely used in fire (heat) for water and steam power plants concentrated continuous sampling analysis and quality control.

- WS2100 Soda sample analysis device
- WS2200 Chemical dosing control system
- WS2300 Desalting water treatment device





WS3000 Continuous Sewage Monitoring System





- the whole system adopts mature technology at home and abroad, good reliability
- Continuous, timely and accurate monitoring of water quality and its changes in the target waters
- Accurate measurement, stable performance, small maintenance
- Automatic flow switch, automatic air backwash and automatic chemical reagent flushing
- Multi-parameter detection, fault diagnosis and multi-parameter overrun alarm

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High Performance Gas Chromatograph

SC-8200\SC-8000 Gas Chromatograph



Gas Chromatograph
Portable Gas Chromatograph
Liquid Chromatograph
Ion Chromatograph
Gas Phase Mass Spectrometer
Ultraviolet Spectrophotometer
Overall Laboratory Construction Engineering Services

SC-82\SC80 series gas chromatograph, built on the chromatographic technique used over the past half a century, operates with the mainstream network communication technology featuring the highly integrated industrial-grade chip, bus technique, Ethernet technique, trace gas control technique and data processing software, etc. Therefore, the instrument operates at a higher level of temperature accuracy and gas control accuracy, greatly contributing to improvement of its stability and reliability.

Functions and features

- Selection of large capacitance touch screen and advanced rubber keyboard
- Utilization of high-precision EPC electronic flow/pressure pneumatic control and precision mechanical valve pneumatic control
- The 6-step program of the injection port increases (decreases) the carrier gas flow / pre column pressure, and the accurate and stable shunt structure ensures the reproducibility of capillary shunt injection
- Eight channel temperature control system, column box 20 steps 21 platform programmed temperature rise
- Varieties of detector available, max. 4 detectors allowed

Thermal conductivity detector (TCD)
Flame ionization detector (FID)
Electron capture detector (ECD)
Flame photometric detector (FPD)
Pulse discharge helium ionization detector (PDHID)

Laboratory Construction Works

Advantages

- Consulting: lab environmental assessment study to provide customers with all-round instructions
- Plan: lab analytical testing breakdown to provide preliminary solutions
- Communication: access to information on testing environmental condition, testing function, air quality requirement, sustainable development target, field survey, feasibility on utility HSE condition
- Design: use of CAD computer mapping system technique to deliver the detailed product mix and design option, discussion on design option → layout (draft) → project estimate → list of project costs → discussion → finalization → deliverables
- Model selection: robust management, comprehensive selection to provide cost effective solutions
- Installation: integrity and operation of lab instruments assured under supervision of experienced field engineers
- Service: life-long technical services to assure the lab's long-term operation


整体设计规划


实验室装修


实验室家具

实验室仪器

制定规章制度

培训服务

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