



Company Information

- The core products include PDS intelligent pressure transmitters, level instruments, TTS temperature transmitters and I/O channel communication processing instruments.
- Chongqing Silian Measure & Control Technology Co., Ltd (formerly Chongqing Chuanyi Instrument Factory No.18 Co., Ltd.) is a wholly owned subsidiary of Chongqing Chuanyi Automation Co. Ltd. The company was built in 1976 and moved to the High-tech Park in the Northern New District of Chongqing in 2005.
- Specialized in the development, manufacture and service of PDS intelligent pressure transmitters, level instruments, TTS temperature transmitters and I/O channel communication processing instruments, we provide you with professional pressure, level and flow solutions.
- 2 sets optical welding machines, 2 sets electron beam welding machines, 8 sets argon arc welding machines, 6 sets filling and filling equipment, 18 sets temperature compensation boxes, 2 automatic assembly and testing lines, and 3 automatic placement production lines. The company became a pilot unit of Chongqing for the integration of the two.
- Our products are widely used in various industrial fields such as petroleum, chemical, electric power, metallurgy, light industry, military and nuclear power, and are exported to Europe, America, Africa, Southeast Asia and other countries and regions.



● Basic Information:

Manufacturer's name: Chongqing Silian Measurement & Control Technology Co. Ltd

Date of establishment/registration: 2007



● **Factory Information:**

Plant Area	12626 m ²
Production Range	Research and development, production, sales and marketing services of transmitter products, automation instrumentation and industrial automatic control system devices
Annual Production Capacity	300,000 units of transmitters
Key Equipments	2 light welding machines, 2 electron beam welding machines, 8 argon arc welding machines, 6 filling machines, 18 temperature compensation boxes, 2 automatic assembly and testing lines, 3 automatic placement lines
Number of Employees	329
Others (national laboratories, R&D center, etc.)	National-level Enterprise Technology Centre, Enterprise Key Laboratory, Engineering Technology Research Centre



Certificate and Standards

Authentication and Certificates

Category	Name of Certification	Certification Authority
Product Certification	CE	TUV
	SIL	TUV
	ATEX	TUV
	HART	HART Communication Foundation
	IECEX	TUV
	CSS	China Classification Society
System Certification	ISO9001	New Century
	ISO14001	New Century
	ISO45001	New Century
Patent Certificate	Automatic inspection system of Process automation system I/O modules	China National Intellectual Property Administration
	Cutting device of metal thin tube of high precision silicon sensor	China National Intellectual Property Administration
	A system and method for automatic calibration of the input signal of a pressure transmitter	China National Intellectual Property Administration
Others	Type approval certificate	Chongqing Municipal Market Supervision Administration
	Design and manufacture license for civil nuclear safety equipment	National Nuclear Safety Administration
	Chongqing high-tech products	Chongqing Science and Technology Commission

* See the attachments at end of this document for details.



• Executive Standard of Process (Production, Technology, QC, Inspection etc.)

Standard Name	Standard Number	Equivalent Standard
Electrical equipment for use in explosive atmospheres Part 1: General requirements	GB 3836.1-2010	
Electrical equipment for use in explosive atmospheres Part 2: Explosion-proof type "d"	GB 3836.2-2010	
Electrical equipment for use in explosive atmospheres Part 4: Intrinsically safe type "i"	GB 3836.4-2010	
Enclosure protection class (IP code)	GB/T 4208-2017	
Industrial product manuals General provisions	GB/T 9969-2008	
General Technical Conditions for Packaging of Electromechanical Products	GB/T 13384-2008	
Technical requirements and test methods for insulation resistance and insulation strength of industrial automation instruments	GB/T 15479-1995	
Transmitters for industrial process control systems Part 1: Performance evaluation methods	GB/T 17614.1-2015	IEC 60770-1:2010,IDT
Electromagnetic compatibility Testing and measurement techniques Electrostatic discharge immunity testing	GB/T 17626.2-2018	IEC 61000-4-2:2008
Electromagnetic compatibility Testing and measurement techniques Radiated immunity tests for radio frequency electromagnetic fields	GB/T 17626.3-2016	IEC 61000-4-3:2010
Electromagnetic compatibility Test and measurement techniques Electrical fast transient pulse group immunity test	GB/T 17626.4-2018	IEC 61000-4-4:2012
Pressure/differential pressure transmitters for industrial process measurement and control systems Part 1 General Technical Conditions	GB/T 28474.1-2012	
Basic environmental conditions and test methods for the transport and storage of instruments	GB/T 25480-2010	



Pressure transmitter calibration protocols	JJG 882-2019	
Digital data communication for measurement and control Fieldbuses for industrial control systems Part II: Physical layer specifications and service definitions.	IEC 61158-2-2014	
WIA Specification for Industrial Wireless Networks Part 1: WIA System Architecture and Communication Specification for Process Automation	GB/T 26790.1-2011	
Industrial communication networks Fieldbus specification type 20: HART specification part 5: Wireless HART wireless communication networks and communication protocols	GB/T 29910.5-2013	IEC 62591:2010
General Performance Assessment Methods and Procedures for Process Measurement and Control Devices Part 1	GB/T 18271-2017	IEC 61298-1:2008
Functional safety of electrical/electronic/programmable electronic safety systems	IEC 61508-2010	
Electrical equipment for measurement, control and laboratory use. Electromagnetic compatibility requirements. Part 1: General requirements	IEC 61326-1-2013	
Electrical equipment for measurement, control and laboratory use. Requirements for electromagnetic compatibility (EMC). Part 3-1: Immunity requirements for safety-related systems and for functional equipment used to perform Immunity requirements for safety-related functional equipment (functional safety). General industrial facilities	IEC 61326-3-1-2017	
Electromagnetic compatibility requirements for electrical equipment for measurement, control and laboratory use Part 1: General requirements	IEC 61298-2008	
Electromagnetic compatibility requirements for electrical equipment for measurement, control and laboratory use Part 23: Special requirements	GB/T 18268.1-2010	
Diffusion silicon type pressure transmitter	GB/T 18268.23-2010	
Industrial communication networks Fieldbus specifications Type 20: HART specification Part 5: Wireless HART wireless communication networks and communication protocols	JB/T 10726-2007	



Main Products

PDS Intelligent Pressure Transmitter

- Single crystal silicon composite sensors

Main Technical Parameters:

Seismic rating: Seismic Class I

Measuring range: 0-50pa ~ 70MPa

Accuracy: $\pm 0.04\%$ (up to $\pm 0.025\%$)

Long-term stability: $\leq \pm 0.1\%/10$ years

Fast response: $\leq 90\text{ms}$ (50ms data refresh time)

Range ratio: 100:1

Explosion protection certification: Ex ia IIC T4 Ga, Ex d IIC T6 Gb

Non-Ex NEPSI: Intrinsically safe Ex ia IIC T4 Ga

NEPSI: Intrinsically safe Ex ia IIC T6 Ga

NEPSI: Explosion-proof Ex d IIC T6 Gb

NEPSI: Dust Ex Ex tD A21 IP67 T85°C

ATEX: Intrinsically Safe II 1 G Ex ia IIC T4 Ga,

ATEX: Explosion-proof II 1/2 G Ex db IIC T6.... T4 Ga/Gb

IECEX: Intrinsically safe Ex ia IIC T4 Ga

IECEX: Ex db IIC T6.... T4 Ga/Gb

NEPSI: Type "n" Ex nA IIC T6 Gc

Overload limit: 42MPa

Safety certification: SIL2

Communication protocols: HART, Profibus-PA, FF, Wireless Hart, ZigBee

15 local machine configurations and intelligent self-diagnosis, simulation and monitoring functions





PDS paper pressure transmitter

Main Technical Parameters:

Maximum range ratio r ($r = \text{maximum range} / \text{range used}$) = 30:1

Long-term stability: $\delta \leq \pm 0.1\text{FS\%/10 years}$

Seismic rating: Seismic Class I

Measuring range: 0-50pa ~ 70Mpa

Accuracy: $\pm 0.04\%$ (up to $\pm 0.025\%$)

Long-term stability: $\leq \pm 0.1\%/10 \text{ years}$

Fast response: $\leq 90\text{ms}$ (50ms data refresh time)

Range ratio: 100:1

Explosion protection certification: Ex ia IIC T4 Ga, Ex d IIC T6 Gb

Non-Ex NEPSI: Intrinsically safe Ex ia IIC T4 Ga

NEPSI: Intrinsically safe Ex ia IIC T6 Ga

NEPSI: Ex d IIC T6 Gb

NEPSI: Dust explosion-proof Ex tD A21 IP67 T85°C

ATEX: Intrinsically safe II 1 G Ex ia IIC T4 Ga,

ATEX: Ex II 1/2 G Ex db IIC T6.... T4 Ga/Gb

IECEx: Intrinsically safe Ex ia IIC T4 Ga

IECEx: Ex db IIC T6.... T4 Ga/Gb

NEPSI: Type "n" Ex nA IIC T6 Gc

Safety certification: SIL2





PDS Hygienic Pressure Transmitter

Main Technical Parameters:

Maximum range ratio r (r =maximum range/use range) =30:1

Long-term stability: $\delta \leq \pm 0.1\text{FS\%/10 years}$

Seismic class: Seismic class I

Measuring range: 0-50pa ~ 70Mpa

Accuracy: $\pm 0.04\%$ (maximum $\pm 0.025\%$)

Long-term stability: $\leq \pm 0.1\%/10 \text{ years}$

Fast response: $\leq 90\text{ms}$ (50ms data refresh time)

Range ratio: 100:1

Ex certification: Ex ia IICT4\T6 Ga, Ex d IICT6 Gb

Non-Ex NEPSI: Intrinsically safe Ex ia IICT4 Ga

NEPSI: Intrinsically safe Ex ia IICT6 Ga

NEPSI: Explosion-proof Ex d IICT6 Gb

NEPSI: Dust explosion-proof Ex tD A21 IP67 T85°C

ATEX: Intrinsically safe II 1 G Ex ia IIC T4 Ga,

ATEX: Ex II 1/2 G Ex db IIC T6.... T4 Ga/Gb

IECEX: Intrinsically safe Ex ia IIC T4 Ga

IECEX: Ex db IIC T6.... T4 Ga/Gb

NEPSI: Type "n" Ex nA IIC T6 Gc

Safety certification: SIL2



PDS Ultra High Temperature Remote Pressure Transmitter

Main Technical Parameter:

Maximum range ratio r (r = maximum range / range used) = 30:1

Long-term stability: $\delta \leq \pm 0.1\text{FS\%/10 years}$

Seismic class: Seismic class I

Measuring range: 0-50pa ~ 70Mpa

Accuracy: $\pm 0.04\%$ (maximum $\pm 0.025\%$)

Long-term stability: $\leq \pm 0.1\%/10 \text{ years}$

Fast response: $\leq 90\text{ms}$ (50ms data refresh time)

Range ratio: 100:1

Explosion protection certification: Ex ia IICT4\T6 Ga, Ex d IICT6 Gb

Safety certification: SIL2





SIC-H375 HRAT Handheld Communicator

Main Technical Parameter:

Dimensions:

228mm x 98mm x 60mm;

The hand-operated section is 70mm wide x 37mm thick

LCD display.

8 lines x 21 characters

HART interface.

HCF compliant, bi-directional half duplex 1200bit/s

Withstand common mode voltage of $\pm 40V$

Communication distance < 1500 m

Automatic amplitude multiplication



Level instrumentation

● MPS Series Radar

Main Technical Parameter:

Operating frequency: 26GHz

Measuring range: 0 ~ 70m

Output signal: 4 to 20 mA HART

Accuracy: 3mm or 0.1% whichever is greater

Antenna material: PTFE, PVDF, 316L, 316L+PTFE

Process connection: G1.5, G3A, M64X2 thread, inline flange, universal flange

Process temperature: -40 to 400°C

Process pressure: -1.0 to 40kgf/cm²

Enclosure protection class: IP67

Safety certification information: SIL2

Intrinsically safe explosion-proof: Ex ia IIC T6/T2 Ga

Explosion-proof: Ex d ia [ia Ga] IIC T6/T2 Gb

Communication protocols: Modbus/Profibus/FF/Hart etc.





- **MGS Series Guided Wave Radar**

Main Technical Parameter:

Operating frequency: 26GHz
Measuring range: 0 ~ 20m
Repeatability: $\pm 3\text{mm}$
Resolution: 1mm
Output signal: 4 to 20mA HART
Accuracy: 0.1%
Probe type: rod, cable, coaxial
Communication interface: HART communication protocol
Process connection: 1-1/2" NPT, G1-1/2" or flange optional
Process temperature: -40 to 400°C
Process pressure: -1.0 to 40 kgf/cm²
Enclosure protection class: IP67



- **RAS Series RF Admittance Level Switches**

Main Technical Parameter:

Operating voltage: 18 to 36VDC (output ripple less than 100mVp-p)
90 ~ 260VAC50/60Hz
Power consumption: < 0.8W@24VDC
< 5VA@240VAC
Output: DPDT double knife double throw relay output
8mA/16mA 2-wire output
Contact capacity: 5A/250VAC
Alarm delay time: 0 ~ 20s adjustable
Test range: 1~3300PF
Resolution: 0.01PF
Electrical Accuracy: 0.05PF
Stability: 0.01%/°C
Maximum process pressure: 20kgf/cm²





- **VS series tuning fork switches**

Main Technical Parameter:

Operating voltage: 18 to 36VDC (output ripple less than 100mVp-p)

90 ~ 260VAC 50/60Hz

Output: DPDT double knife double throw relay output

8mA/16mA 2-wire output

Relay contact capacity: 5A/250VAC

Stability: 0.01%/°C

Maximum process pressure: 20kgf/cm²

Process temperature: -40 ~ 150°C

Process connection: 1" NPT (for liquid long or short forks)

3/4" NPT (for liquid short forks only)

1-1/2" NPT

Flange mounting

Ambient temperature: -40 to 80°C

Enclosure protection level: IP67

Safety certification information: SIL2

Gas explosion-proof: Ex d IIC T3/T4Gb

Dust explosion-proof: Ex tD A20IP67T135°C/T150°C



- **RS Series Resistive Level Switches**

Main Technical Parameter:

Operating voltage: 24VDC (output ripple less than 100mVp-p)

220VAC 50/60Hz

Output: SPDT single knife double throw relay output

Relay contact capacity: 5A/250VAC

Alarm torque: 1.0 kg.cm

Process temperature: -40 ~ 400°C

Process connection: 1-1/2" NPT

or flange mounting

Ambient temperature: -40 - 80°C

Enclosure protection class: IP65

Process pressure: atmospheric pressure

Safety certification information: SIL2

Gas explosion-proof: Ex d IIC T3/T4Gb

Dust explosion-proof: Ex tD A20IP65T135°C/T200°C





● GMS Series Microwave Level Switches

Main Technical Parameter:

Material temperature: over 700°C with wave-guiding parts

Power supply: 220VAC standard input: 200 to 270VAC available, 50 to 60Hz

24VDC standard input: 18 to 36VDC, ripple voltage 100mVp-p

Microwave signal: Frequency: 10.525GHz

Average energy density: 20 $\mu\text{W}/\text{cm}^2$, linearly polarized

emission angle of approx. 30 degrees

Adjustment: Test button - Transient button

One coarse and one fine adjustment potentiometer are used to set the sensitivity of the system and the delay time of the relay action can be adjusted by two independent potentiometers between 100ms and 30s.

Relay touch outputs: SPDT - 5A@250VAC

Optional: Solid state relay 1A@250VAC/VDC

Protection class: IP67

Mounting: 1- 3" NPT male thread or flange with 4 blind threaded 6mm (0.25") holes

a. 3" threaded weldment for standard integral installation

b. Flanges for use in environments with strong vibrations

2- 4" PTFE (Teflon) threaded weldments and UHMW windows

3- Ceramic window assembly

4- Refractory brick window assembly

Range of use: 20cm-100m



● HS-AW Series Ultrasonic Level Meters

Main Technical Parameter:

Power supply: 12 ~ 28VDC

18 ~ 32VDC

3.7VDC

220VAC

Internal dry battery power

Solar battery powered

Power consumption: <1.5W

Measuring range: 1~40m

Frequency: 20kHz to 2000kHz

Accuracy: $\pm 0.5\%$ F.S

Blind spot: <0.5m

Display: OLED

Safety certification: SIL2

Operating temperature: -40°C to 110°C

Analogue output: 4 to 20mA

1 to 5V

1 to 10V

1 ~ 5V

1 ~ 10V





- **MB series magnetic flap level meter**

Main Technical Parameter:

Installation center distance: 150 to 6000mm (more than 6m can be ordered by negotiation)

Medium density: $>0.45\text{g/cm}^3$

Nominal pressure: PN63 to PN320 (0.1MPa)

Level gauge material: 304, 316L, 321, titanium alloy, etc.

Operating temperature range: -190 to $+425^{\circ}\text{C}$





- Field Application





Reference Performance

Petroleum and Petrochemical



Country	User Name	Project Name	Year
China	China Petroleum & Chemical Group Limited	Shengli Oilfield, Baling Petrochemical, Shijiazhuang Refining & Chemical, Great Wall Energy, Beijing Yanshan Petrochemical	2010 - 2020
China	China National Petroleum Corporation	Daqing Oilfield, Jidong Oilfield, Klasu Gas Field, Liaohe Oilfield, Tianjin Dagang Petrochemical, Jinxi Petrochemical	2012 - 2020
China	China National Offshore Oil Services Co.Ltd	Special Equipment Company of Offshore Oil Engineering Company Limited, CNOOC Tianjin Branch, CNOOC Zhanjiang Branch	2012 - 2020
China	Shaanxi Yanchang Petroleum (Group) Co.Ltd	Yanchang Petroleum Group Exploration Company, Yan'an Oil Refinery, Yulin Oil Refinery, Descending Star Chemical, Yulin Coal Chemical	2014 - 2020
China	Zhejiang Petrochemical Co.Ltd	Phase I 40 million tonnes/year refinery, Phase II 20 million tonnes/refinery, Phase II 1.5 million tonnes/year ethylene plant	2018 - 2020



Chemical Industry



Country	User Name	Project Name	Year
China	Hubei Saning Chemical Co.Ltd	600,000 t/a of ethylene glycol	2019
China	Yang Coal Group Ping Point Chemical Co.Ltd	600,000 t/a of ethylene glycol	2014 - 2019
China	Yang Coal Group Shouyang Chemical Co.Ltd	400,000 tons/year of ethylene glycol	2015 - 2017
China	Anhui Jinjiang Coal Zhongneng Chemical Co.	Xinjiang 4060 synthetic ammonia urea, Linquan 600,000 tons of synthetic ammonia	2014 - 2019



Chemical



Country	User Name	Project Name	Year
India	Golden Arrow India	4000m ³ air minutes	2008
China	Shandong Dongyue Chemical Co.Ltd	SIS system, fluorine chemical project renovation, tetrachloroethylene section expansion	2012 - 2020
China	Shanxi Hengrui Chemical Co.Ltd	400,000 tons/year polyethylene, 400,000 tons/year resin, 600,000 tons/year polyethylene	2014
China	Zhejiang Huangma Technology Co.Ltd	100,000 tons/year of new material resin	2016 - 2020
China	Anhui Qingyang Chemical Co.Ltd	100,000 tons/year of urea-formaldehyde resin, 300,000 tons/year of formaldehyde, 30,000 tons/year of acetal, 100,000 tons/year of water-reducing agent	2019



Power



Country	User Name	Project Name	Year
Angola	SOYO power plant, Angola	Combined Cycle Power Plants	2017
Indonesia	Indonesia Power Plant	2*12MW heating generator set	2008
Pakistan	Kamm Power Plant, Pakistan	2*660MW coal-fired power plant	2016
Tajikistan	Tajikistan Dushanbe Power Plant	2*150MW thermal power	2016
China	Shenhua Shendong Power Chongqing Wanzhou Port Power Co.Ltd	2*1000MW units	



Metallurgy



Country	User Name	Project Name	Year
Indonesia	Indonesia Sugang Group	450 ton blast furnace	2008
Indonesia	Krakatoa Steel Indonesia	1832m ³ blast furnace	2011 - 2016
China	China Baowu Iron & Steel Group Co.	Steelmaking works, desulphurization maintenance, 120-ton converter, 2*240-ton boiler	2018 - 2020



**Light Industry & Building
Material**



Country	User Name	Project Name	Year
China	Anhui Conch Cement Co., Ltd.	Conch Group/67 production lines of cement and waste heat power generation with 5000 tons/day	2005 - 2020
China	Jiangxi South Cement Co. Ltd	Nancheng South 5000 tons / day and other 9 cement production lines	2010 - 2020
China	Tangshan Jidong Cement Co. Ltd	Bangshi Jidong Cement 5000 tons / day and other 10 cement production lines	2017 - 2020



Energy Saving and Environment Protection



Country	User Name	Project Name	Year
China	Beijing CEC Renewable Energy Co.Ltd	Tianjin Dongli 2400t/day, Hefei 1100t/day, Hengshui 1000t/day, Laishui 1000t/day, Baonan 2*500t/d	2016
China	Chongqing Sanfeng Kavanta Environmental Industry Co.Ltd	Shaoxing 3*750t/day, Dali 600t/day, Dongying 6000t/day, Anhui Lu'an 2*600t/day, Xichang 600t/d	2011/2020
China	Hangzhou Jinjiang Environment Group Co.Ltd	Shijiazhuang 1000t/day waste incineration power generation	2009/2019
China	Shanghai Kangheng Environment Co.Ltd	Ningbo 1000t/day, Huangyan 1500t/day, Yili 1000t/day, Wuzhou 2000t/day	2016/2020



Customer Testimonials

产品运行报告

使用单位	沧州中铁装备材料有限公司	项目名称	全厂备件
联系人	段北北	电话	18032738505
产品名称	脉冲雷达/超声波	型号	MPSS1-S0AB2M1NXO MPS3100SB2X4XDMFB-BGCFDX HS-AW-L12HRCC2XXXB00PCMF- BGBEDX
产品制造单位	重庆四联测控技术有限公司	数量	40
运行时间	2020年1月-2020年9月		
运行情况	我公司从2020年1月开始全厂备件采购重庆四联测控技术有限公司的脉冲雷达及超声波液位计，总体运行情况还是可以，也能满足现场要求		
结论	仪表没有什么大问题，服务也很及时，总体还是满意		

使用单位（盖章）：



2020年9月17日



产品使用评价表

用户单位名称	马鞍山钢铁股份有限公司		合同号	2019 总 18K-0385
用户联系人	张立岩		联系电话	18055564195
产品名称	脉冲雷达物位计	规格型号	MPS3700SU4X7XDABF-WBMCFA	
使用工况	四钢轧料仓			
使用日期	2019 年 12 月			
结论	满足需求 ☒ 不满足需求 ☐			

使用评价:

现场使用效果良好,满足现场工况要求.



用户单位 (盖章)

签字:

日期: 张立岩

2020年8月2日



产品使用评价表

用户单位名称	新疆宝明矿业		合同号	2019 总 18K-0415
用户联系人	王子伟		联系电话	18699456261
产品名称	脉冲雷达物位计	规格型号	MPS3100SB2I3XDMFB-BJBADX	
使用工况	页岩油			
使用日期	2019 年 9 月			
结论	满足需求 ☒ 不满足需求 ☐			
使用评价： 使用情况良好  用户单位（盖章）： 签 字：王子伟 日 期：				



产品运行报告

使用单位	曲靖越聚化工	项目名称	20 万吨合成氨
产品名称	PDS 智能压力变送器	型号	PDS803GH
产品制造单位	重庆四联测控技术有限公司	数量	20
运行时间	2020 年 1 月至 2020 年 9 月		
运行情况	正常		
结论	满意		

使用单位（盖章）





产品运行报告

使用单位	泸州北方塑料化工有限公司	项目名称	
产品名称	智能压力变送器	型号	PDS473H, PDS863WH
产品制造单位	重庆四联测控技术有限公司	数量	20 台
运行时间	2019 年 5 月~2020 年 8 月		
运行情况	运行正常。		
结论	该批智能压力变送器满足使用要求。		

使用单位（盖章）



2020 年 12 月 3 日



产品运行报告

使用单位	巴州海祥石油化工有限公司	项目名称	10 万吨粗苯精制
产品名称	PDS 智能压力变送器	型号	PDS800 系列
产品制造单位	重庆四联测控技术有限公司	数量	150 台
运行时间	2018 年 11 月		
运行情况	产品运行稳定，质量良好，无任何温飘或零飘。		
结论	PDS 变送器产品质量优秀，售后有保障。		

使用单位（盖章）：





产品运行报告

使用单位	新疆美汇特石化产品有限公司	项目名称	煤焦油加氢
产品名称	PDS 智能压力变送器	型号	PDS800 系列
产品制造单位	重庆四联测控技术有限公司	数量	150 台
运行时间	2020 年 6 月		
运行情况	产品运行稳定，质量良好，无任何温飘或零飘。		
结论	PDS 变送器产品质量优秀，售后有保障。		

使用单位（盖章）：





应用证明

产品名称	PDS 智能压力变送器
应用单位名称	四川和邦生物科技股份有限公司
通讯地址	四川省乐山市五通桥区和邦工业园
联系人员及电话	江惠，15984384650
应用时间	2008 年 3 月—— 今

运行情况及效果：

我公司为化工领域企业，（公司主营业务为：制造、销售纯碱、氯化铵、液氨、碳酸钙、化工新产品开发；生产工艺中的废气、废渣、废水处理；对外投资；化工技术咨询等。通过不断对现有资源的整合和对新建项目的投资逐步扩大公司规模。）。

我公司在 100 万吨/年真空制盐、60 万吨/年联碱、60 万吨真空制盐项目中使用了重庆川仪自动化股份有限公司生产的 PDS 智能压力变送器产品，共 1129 台套，总金额 407.4 万元，主要用于全项目工段的压力、流量、液位的自动化参数测量与控制。

经过 10 年的长时间使用，产品性能稳定、可靠，操作方便，满足我方使用要求。

应用单位（盖章）：
2019 年 8 月 1 日

四川和邦投资集团有限公司
物资采购中心



产品运行报告

使用单位	广州季范工业用品有限公司	项目名称	肇庆市博能再生资源垃圾发电项目
产品名称	智能压力变送器	型号	PDS 系列
产品制造单位	重庆四联测控技术有限公司	数量	50
运行时间	2020 年 1 月~2020 年 10 月		
运行情况	我公司自 2020 年以来,在肇庆市博能再生资源垃圾发电项目陆续采用 PDS 智能变送器 50 台,分别用于垃圾发电工段或装置。项目正式营运后,所使用的 PDS 压力、差压、法兰型变送器在各工艺点压力、流量等参数的测量过程中,控制准确有效,运行稳定可靠。		
结论	PDS 智能压力变送器能在我公司实际使用工况下正常、稳定运行,同时符合替代同类型进口产品的标准		

使用单位(盖章):



2020 年 9 月 21 日



产品运行报告

使用单位	马鞍山钢铁股份有限公司	项目名称	炼铁总厂高炉大修
产品名称	智能压力变送器	型号	PDS 系列
产品制造单位	重庆四联测控技术有限公司	数量	150
运行时间	2019 年 8 月~2020 年 8 月		
运行情况	我公司自 2019 年以来, 在 (二铁高炉大修) 项目陆续采用 PDS 智能变送器 150 台。项目正式营运后, 所使用的 PDS 压力、差压、法兰型变送器在各工艺点压力、流量等参数的测量过程中, 控制准确有效, 运行稳定可靠。		
结论	PDS 变送器在我公司实际使用工况下正常, 稳定, 表现非常不错。		

使用单位 (盖章)



2020 年 9 月 18 日



情况说明

重庆川仪自动化股份有限公司生产的 PDS 变送器在我厂使用良好,分厂无故障反映。相对于贵公司使用的量程型号有以下几个合同:

合同号: ADZB18110240 详见合同清单

合同号: ADZB19010209 详见合同清单

特此说明,可附上相关合同作为参考





Annex: Accreditation and Standards

HART certificates

HS-AW Series Ultrasonic SIL Certificate

شهادة - 증명서 - Certificat - 證明書 - Сертификат - Certificate

SIL



Functional Safety Certificate

No. 1N200610.CSMQW16

Certificate's Holder: Chongqing Silian Measure & Control Technology Co., Ltd.
No. 61, Mid. Huangshan Av., Liang Jiang New Area, Chongqing, P. R. China

Product: Ultrasonic Level Transmitter
Model(s): HS-AW Series

Standard: Has been assessed per the relevant requirements of:
IEC 61508:2010 Parts 1-7
And meets requirements providing a level of Integrity to:
Systematic Capability: SC 3 (SIL 3 Capable)
Random Capability: Type B Element
SIL 2 @ HFT= 0; SIL 3 @ HFT=1; Route 2;
PFDavg and Architecture Constraints must be verified each application.

* Safety Function:
HS-AW series ultrasonic level transmitter is a general-purpose continuous level measuring instrument. Ultrasonic signal is sent by the ultrasonic probe. Upon encountering the measured material, the signal is reflected by the material and then turns back to the probe. The electronic unit records the time difference between the signal transmission and reception, and then calculates the level of the measured material.

* Is suitable to be safety function according to the description and the configuration defined in Annex I.

Verification Mark:



The Verification Mark can be affixed on the product. It is NOT permitted to alter the Verification Mark in any way

Remark: This SIL Verification of Compliance has been issued on a voluntary basis. ECM confirms that a Test Report is existent for the above listed product(s) and found to meet the requirements of above standards for application in safety related system up to Safety Level of **SIL 3**.
The unit must be properly designed into a Safety Instrument Function as per the requirements in the Safety Manual. The Verification Mark shown above can be affixed on the product. It is NOT permitted to alter the Verification Mark in any way. In addition the Verification's Holder is NOT allowed to transfer the Verification to third parties. This certificate can be checked for validity at www.entecerma.it

Date of issue 10 June 2020

Expiry date 09 June 2025

Service Manager
Luca Redonni

Deputy Manager
Amanda Payne

Ente Certificazione Macchine

Via Cà Bella, 243 - 40053 Valsamoggia Loc. Castello di Serravalle (Bo) Italy
☎ +39.0516705141 ☎ +39.0516705156 ✉ info@entecerma.it 🌐 www.entecerma.it



MB series magnetic flap SIL certificate

شهادة – Certificat – 증명서 – 證明書 – Сертификат – Certificate

SIL



Functional Safety Certificate

No. 1N200610.CSMQW15

Certificate's Holder: Chongqing Silian Measure & Control Technology Co., Ltd.
No. 61, Mid. Huangshan Av., Liang Jiang New Area, Chongqing, P. R. China

Product: Magnetic Float Type Level Indicator
Model(s): MB Series

Standard: Has been assessed per the relevant requirements of:
IEC 61508:2010 Parts 1-7
And meets requirements providing a level of integrity to:
Systematic Capability: SC 2 (SIL 2 Capable)
Random Capability: Type B Element
SIL 2 @ HFT=0; Route 1;
PFDwo and Architecture Constraints must be verified each application.

*** Safety Function:**

MB series magnetic float type level indicator is to be connected to a liquid container, and based on the principle of communicating vessels and Archimedes Buoyancy Law, the magnetic float in the measuring cylinder of the instrument tracks the level. Due to the magnetic coupling effect, the magnetic float flips the double-color magnetic flaps on the external indicator attached to the cylinder. The top of the red or green flap strip always indicates the level of the measured liquid. With an optional magnetic transducer attached to the measuring cylinder and an optional transmitter, the instrument outputs current of 4mA to 20mA proportionally to the level.

* Is suitable to be safety function according to the description and the configuration defined in Annex I.

Verification Mark:



The Verification Mark can be affixed on the product. It is NOT permitted to alter the Verification Mark in any way

Remark: This SIL Verification of Compliance has been issued on a voluntary basis. ECM confirms that a Test Report is existent for the above listed product(s) and found to meet the requirements of above standards for application in safety related system up to Safety Level of **SIL 2**.

The unit must be properly designed into a Safety Instrument Function as per the requirements in the Safety Manual. The Verification Mark shown above can be affixed on the product. It is NOT permitted to alter the Verification Mark in any way. In addition the Verification's Holder is NOT allowed to transfer the Verification to third parties. This certificate can be checked for validity at www.entecerma.it

Date of issue 10 June 2020

Expiry date 09 June 2025

Service Manager

Luca Redonni

Deputy Manager

Amanda Payne

Ente Certificazione Macchine

Via Ca' Pioss, 243 - 40053 Valsamoggia Loc. Castello di Serravalle (Bo) Italy
+39.0516705141 +39.0516705156 info@entecerma.it www.entecerma.it



PDS8-FF Series CE Certificate

C E R T I F I C A T E

of Conformity

EC Council Directive 2014/30/EU

Electromagnetic Compatibility



Registration No.: AE 50471774 0001

Report No.: 60370390 001

Holder: Chongqing Silian Measure & Control
Technology Co., Ltd.
No. 61
Middle Section Huangshan Ave,
North New Zone
401121 Chongqing
P.R. China

Product: Measurement Device
(PDS Smart Transmitter)

Identification: Type Designation: PDS803GF-1BS1-B1DN/G61
Serial No.: Engineering Sample
Remark: Refer to test report 60370390 001 for details.

Tested acc. to: EN 61326-1:2013

This certificate of conformity is based on an evaluation of a sample of the above mentioned product. Technical Report and documentation are at the Licence Holder's disposal. This is to certify that the tested sample is in conformity with all provisions of Annex I of Council Directive 2014/30/EU. This certificate does not imply assessment of the production of the product and does not permit the use of a TÜV Rheinland mark of conformity. The holder of the certificate is authorized to use this certificate in connection with the EC declaration of conformity according to the a.m. Directive.



Certification Body

Sun Lixun

Date 19.06.2020

TÜV Rheinland LGA Products GmbH - Tillystraße 2 - 90431 Nürnberg

CE The CE marking may only be used if all relevant and effective EC Directives are complied with. CE



Explosion-proof certificate of conformity:

PDS800F, P-Series R Explosion-proof, non-sparking, dust-proof Certificate



EXPLOSION PROTECTION
CERTIFICATE OF CONFORMITY

Cert NO.GYB20.2417X

This is to certify that the product

Smart Pressure Transmitter

manufactured by Chongqing Silian Measure & Control Technology Co., Ltd
(Address: No.61, the centre of Huangshan Avenue, New north Zone, Chongqing)

which model is PDS800F/P series

Ex marking Ex d IIC T6 Gb
Ex nA IIC T6 Gc
Ex tD A21 IP67 T85°C

product standard Q/CK 439-2020

drawing number See the attachment

has been inspected and certified by NEPSI, and that it conforms
to GB 3836.1-2010, GB 3836.2-2010, GB 3836.8-2014, GB 12476.1-2013,
GB 12476.5-2013

This Approval shall remain in force until 2025.09.16

Remarks 1. Conditions for safe use are specified in the instructions.
2. Symbol "X" placed after the certification number denotes specific conditions of use,
which are specified in the attachment(s) to this certificate.
3. Model designation is specified in the attachment(s) to this certificate.

Director 

National Supervision and Inspection Centre for
Explosion Protection and Safety of Instrumentation

Issued Date 2020.09.17

This Certificate is valid for products compatible with the documents and samples approved by NEPSI.

103 Cao Bao Road
Shanghai 200233, China

<http://www.nepsi.org.cn>
Email: info@nepi.org.cn

Tel: +86 21 64368180
Fax: +86 21 64844580



防 爆 合 格 证

证 号: GYB20.2417X

由 重庆四联测控技术有限公司
(地址: 重庆市北部新区黄山大道中段61号)

制造的产品:

名 称 智能压力变送器
型 号 规 格 PDS800F/P系列
Ex d II C T6 Gb
防 爆 标 志 Ex nA II C T6 Gc
Ex tD A21 IP67 T85℃
产 品 标 准 Q/CK 439-2020

图 样 编 号 见附件

经图样及技术文件的审查和样品检验, 确认上述产品
符合 GB 3836.1-2010、GB 3836.2-2010、GB 3836.8-2014、 标准,
GB 12476.1-2013、GB 12476.5-2013
特颁发此证。

本证书有效期: 2020年9月17日至2025年9月16日

备 注 1. 安全使用注意事项见使用说明书。
2. 证书编号后缀“x”表明产品具有安全使用特殊条件。内容见本证书附件。
3. 型号规格说明见本证书附件。

站 长 
国家级仪器仪表防爆安全监督检验站
颁发日期二〇二〇年九月十七日

本证书仅对与认可文件和样品一致的产品有效。

地址: 上海市漕宝路103号
邮编: 200233

网址: www.nepsi.org.cn
Email: info@nepsi.org.cn

电话: +86 21 64368180
传真: +86 21 64844580



PDS8-PA series CE certificate

C E R T I F I C A T E

of Conformity

EC Council Directive 2014/30/EU

Electromagnetic Compatibility



Registration No.: AE 50471818 0001

Report No.: 60370391 001

Holder: Chongqing Silian Measure & Control
Technology Co., Ltd.
No. 61
Middle Section Huangshan Ave,
North New Zone
401121 Chongqing
P.R. China

Product: Measurement Device
(PDS Smart Transmitter)

Identification: Type Designation: PDS803GF-1BS1-B1DN/G61
Serial No.: Engineering Sample
Remark: Refer to test report 60370391 001 for details.

Tested acc. to: EN 61326-1:2013

This certificate of conformity is based on an evaluation of a sample of the above mentioned product. Technical Report and documentation are at the Licence Holder's disposal. This is to certify that the tested sample is in conformity with all provisions of Annex I of Council Directive 2014/30/EU. This certificate does not imply assessment of the production of the product and does not permit the use of a TÜV Rheinland mark of conformity. The holder of the certificate is authorized to use this certificate in connection with the EC declaration of conformity according to the a.m. Directive.



Certification Body

Sun Lixun

Date 19.06.2020

TÜV Rheinland LGA Products GmbH - Tillystraße 2 - 90431 Nürnberg

CE The CE marking may only be used if all relevant and effective EC Directives are complied with. CE



CE certificate for the PDS-PA series

شهادة - 증명서 - 證明書 - Сертификат - Certificat - Certificate

Form QAT_10-M05, version 00, effective since March 25th, 2020

Certificate of Compliance

No. 1N200428.CSMQU39

Technical Construction File no.: UF2020042601EMC



Certificate's
Holder:

CHONGQING SILIAN MEASURE &
CONTROL TECHNOLOGY CO., LTD.
No.61 Zhongduan, Huangshan Ave., Liang Jiang
New District, Chongqing

Certification ECM
Mark:



Product:
Model(s):

PDS-PA series Intelligent Transmitter
(see the following annex)

Verification to:

Standard:
EN 61326-1:2013

related to CE Directive(s):
2014/30/EU (Electromagnetic Compatibility)

Remark: This document has been issued on a voluntary basis and upon request of the manufacturer. It is our opinion that the technical documentation received from the manufacturer is satisfactory for the requirements of the ECM Certification Mark. The conformity mark above can be affixed on the products accordingly to the ECM regulation about its release and its use.

Additional information and clarification about the Marking:



The manufacturer is responsible for the CE Marking process, and if necessary, must refer to a Notified Body. This document has been issued on the basis of the regulation on ECM Voluntary Mark for the certification of products. RG01_ECM rev.3 available at: www.entecerma.it

Issuance date: 28 April 2020

Expiry date: 27 April 2025

Reviewer
Technical expert
Amanda Payne



Approver
ECM Service Director
Luca Bedonni



Ente Certificazione Macchine Srl

Via Ca' Bella, 243 - Loc. Castello di Serravalle - 40053 Valsamoggia (BO) - ITALY
☎ +39 051 6705141 📠 +39 051 6705156 ✉ info@entecerma.it 🌐 www.entecerma.it



PDS8-H Series CE Certificate

C E R T I F I C A T E
of Conformity

EC Council Directive 2014/30/EU
Electromagnetic Compatibility



Registration No.: AE 50471644 0001

Report No.: 60370392 001

Holder: Chongqing Silian Measure & Control
Technology Co., Ltd.
No. 61
Middle Section Huangshan Ave,
North New Zone
401121 Chongqing
P.R. China

Product: Measurement Device
(PDS Smart Transmitter)

Identification: Type Designation: PDS803GH-1BS1-B1DN/G61
Serial No.: Engineering Sample
Remark: Refer to test report 60370392 001 for details.

Tested acc. to: EN 61326-1:2013

This certificate of conformity is based on an evaluation of a sample of the above mentioned product. Technical Report and documentation are at the Licence Holder's disposal. This is to certify that the tested sample is in conformity with all provisions of Annex I of Council Directive 2014/30/EU. This certificate does not imply assessment of the production of the product and does not permit the use of a TÜV Rheinland mark of conformity. The holder of the certificate is authorized to use this certificate in connection with the EC declaration of conformity according to the a.m. Directive.



Certification Body

Sun Lixun

Date 19.06.2020

TÜV Rheinland LGA Products GmbH - Tillystraße 2 - 90431 Nürnberg

CE The CE marking may only be used if all relevant and effective EC Directives are complied with. CE



Explosion-proof certificate of conformity:
PDS403N-Insulation, Dust-GYB20.2035X

		
EXPLOSION PROTECTION CERTIFICATE OF CONFORMITY		
Cert NO.GYB20.2035X		
This is to certify that the product		
Digital Pressure Transmitter		
manufactured by	Chongqing Silian Measure & Control Technology Co., Ltd (Address:No.61, the centre of Huangshan Avenue, New north Zone, Chongqing)	
which model is	PDS403N Series	
Ex marking	Ex d IIC T6 Gb Ex tD A21 IP67 T85°C	
product standard	Q/CY 81-2020	
drawing number	CTP2.600.201-B, CTP2.600.202-B, CTP2.600.203-B,	
has been inspected and certified by NEPSI, and that it conforms to GB 3836.1-2010,GB 3836.2-2010,GB 12476.1-2013,GB 12476.5-2013		
This Approval shall remain in force until 2025.07.05		
Remarks	1.Conditions for safe use are specified in the attachment(s) to this certificate. 2.Symbol "X" placed after the certification number denotes specific conditions of use, which are specified in the attachment(s) to this certificate. 3.Model designation is specified in the attachment(s) to this certificate. 4.Safe parameters specified in the attachment(s) to this certificate.	
Director National Supervision and Inspection Centre for Explosion Protection and Safety of Instrumentation Issued Date 2020.07.06 		
This Certificate is valid for products compatible with the documents and samples approved by NEPSI.		
103 Cao Bao Road Shanghai 200233, China	http://www.nepsi.org.cn Email: info@nepsl.org.cn	Tel: +86 21 64368180 Fax: +86 21 64844580



防 爆 合 格 证

证 号: GYB20.2035X

由 重庆四联测控技术有限公司

制造的产品:

(地址: 重庆市北部新区黄山大道中段61号)

名 称 数字压力变送器

型 号 规 格 PDS403N系列

防 爆 标 志 Ex d IIC T6 Gb Ex tD A21 IP67 T85℃

产 品 标 准 Q/CY 81-2020

图 样 编 号 CTP2.600.201-B, CTP2.600.202-B, CTP2.600.203-B,

经图样及技术文件的审查和样品检验, 确认上述产品
符合 GB 3836.1-2010、GB 3836.2-2010、GB 12476.1-2013、标准,
GB 12476.5-2013
特颁发此证。

本证书有效期: 2020年7月6日至2025年7月5日

备 注 1. 安全使用注意事项见本证书附件。
2. 证书编号后缀“X”表明产品具有安全使用特殊条件。内容见本证书附件。
3. 型号规格说明见本证书附件。
4. 电气安全参数见本证书附件。

站 长

国家级仪器仪表防爆安全监督检验站

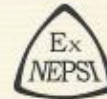
颁发日期二〇二〇年七月六日

本证书仅对与认可文件和样品一致的产品有效。

地址: 上海市漕宝路103号
邮编: 200233

网址: www.nepsi.org.cn
Email: info@nepsi.org.cn

电话: +86 21 64368180
传真: +86 21 64844580



防 爆 合 格 证

证 号: GYB20.2036X

由 重庆四联测控技术有限公司

制造的产品:

(地址: 重庆市北部新区黄山大道中段61号)

名 称 数字压力变送器

型 号 规 格 PDS403N系列

防 爆 标 志 Ex ia II C T4 Ga

产 品 标 准 Q/CY 81-2020

图 样 编 号 CTP2.600.201-B, CTP2.600.202-B, CTP2.600.203-B,

经图样及技术文件的审查和样品检验, 确认上述产品
符合 GB 3836.1-2010、GB 3836.4-2010、GB 3836.20-2010 标准,
特颁发此证。

本证书有效期: 2020年7月6日至2025年7月5日

备 注 1. 安全使用注意事项见本证书附件。
2. 证书编号后加“X”表明产品具有安全使用特殊条件, 内容见本证书附件。
3. 型号规格说明见本证书附件。
4. 本安电气参数见本证书附件。

站 长

国家级仪器仪表防爆安全监督检验站

颁发日期二〇二〇年七月六日

本证书仅对与认可文件和样品一致的产品有效。

地址: 上海市漕宝路103号
邮编: 200233

网址: www.nepsi.org.cn
Email: info@nepsi.org.cn

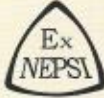
电话: +86 21 64368180
传真: +86 21 64844580



Explosion-proof certificate of conformity:

PDS403N-Intrinsically safe explosion-proof-GYB20.2036X

PDS403N-Intrinsically safe and explosion-proof-GYB20.2036X



EXPLOSION PROTECTION
CERTIFICATE OF CONFORMITY

Cert NO.GYB20.2036X

This is to certify that the product

Digital Pressure Transmitter

manufactured by Chongqing SiLian Measure & Control Technology Co., Ltd
(Address:No.61, the centre of Huangshan Avenue, New north Zone, Chongqing)

which model is PDS403N Series

Ex marking Ex ia IIC T4 Ga

product standard Q/CY 81-2020

drawing number CTP2.600.201-B, CTP2.600.202-B, CTP2.600.203-B,

has been inspected and certified by NEPSI, and that it conforms
to GB 3836.1-2010,GB 3836.4-2010,GB 3836.20-2010

This Approval shall remain in force until 2025.07.05

Remarks

- 1.Conditions for safe use are specified in the attachment(s) to this certificate.
- 2.Symbol "X" placed after the certification number denotes specific conditions of use, which are specified in the attachment(s) to this certificate.
- 3.Model designation is specified in the attachment(s) to this certificate.
- 4.Intrinsic safety parameters specified in the attachment(s) to this certificate.

Director 

National Supervision and Inspection Centre for
Explosion Protection and Safety of Instrumentation

Issued Date 2020.07.06



This Certificate is valid for products compatible with the documents and samples approved by NEPSI.

103 Cao Bao Road
Shanghai 200233, China

<http://www.nepsi.org.cn>
Email: info@nepsl.org.cn

Tel: +86 21 64368180
Fax: +86 21 64844580



Quality Management System Certificate

质量管理体系认证证书

注册号: 018CQ2020247886L-8
统一社会信用代码: 91500000663597362T

兹 证 明

重庆四联测控技术有限公司

质量管理体系符合
GB/T19001-2016 idt ISO9001:2015 标准, 适用于

智能压力变送器及零部件、前级信号处理仪表、数字仪表、物位仪表和直流电
源产品的设计/开发、生产、销售和服务

注册地址: 重庆市北部新区黄山大道中段61号3号厂房

经营地址: 重庆市北部新区黄山大道中段61号

初次发证日期: 2003年01月04日
再认证日期: 2020年11月12日
证书有效期至: 2023年11月24日

新世纪检验认证有限责任公司
总经理:

尚志强



BCI地址: 北京市西城区西便门1号楼11层1101室
本证书在国家规定的各行政许可、资质许可有效期内使用有效
获证组织必须定期接受监督审核并合格, 此证书方继续有效。
证书有效性可通过网站: www.bci.com.cn 查询, 也可二维码查询
本证书信息可在国家认监委网站www.cnca.gov.cn 查询



中国认可
国际互认
管理体系
MANAGEMENT SYSTEM
CNAS C016-M





CERTIFICATE OF QUALITY MANAGEMENT SYSTEM CERTIFICATION

Certificate No.016CQ20Q32478R6L-8
Unified social credit code:91500000663597362T

This is to Certify that the Quality Management System of

**CHONGQING SILIAN MEASUREMENT AND CONTROL
TECHNOLOGY CO., LTD.**

is in conformity with
GB/T19001-2016 idt ISO9001:2015 Standard, applies to

DESIGN / DEVELOPMENT, PRODUCTION, SALES AND SERVICE OF INTELLIGENT PRESSURE
TRANSMITTER AND PARTS, PRE SIGNAL PROCESSING INSTRUMENT, DIGITAL INSTRUMENT,
MATERIAL LEVEL INSTRUMENT AND DC POWER SUPPLY PRODUCTS

REGISTERED ADDRESS:NO.3 WORKSHOP, NO.61, MIDDLE SECTION OF MOUNT HUANGSHAN
AVENUE, NORTHERN NEW DISTRICT, CHONGQING, P.R.C.
OPERATION ADDRESS:NO.61, MIDDLE SECTION OF MOUNT HUANGSHAN AVENUE,
NORTHERN NEW DISTRICT, CHONGQING, P.R.C.

Date of Initial Issuance:Jan. 4, 2003
Date of Re-certification Issuance:Nov. 12, 2020
Date of Expiration:Nov. 24, 2023

BCC Inc.
President:

尚志强



BCC Address: Room 1101, Floor 11, Building 1, Guoyingyuan, Xichang District, Beijing, P.R.C.
This certificate is valid within state - specified validities of administrative and qualification licensing.
The effectiveness of this certificate shall be maintained by regular surveillance audit.
The validity of the certificate can be inquired through www.bcc.com.cn or by QR code.
The information of this certificate available for inquiry on CSCA's website: www.ccsa.gov.cn.



中国认可
国际互认
管理体系
MANAGEMENT SYSTEM
CNAS C015-M





Certificate of Environmental Management System Certification

环境管理体系认证证书

注册号: 016CQ19E31582R3L-8
统一社会信用代码: 91500000663597362T

兹 证 明

重庆四联测控技术有限公司

环境管理体系符合
GB/T24001-2016 idt ISO14001:2015 标准, 适用于

智能压力变送器及零部件、前级信号处理仪表、数字仪表、物位仪表和直流电
源产品的设计/开发、生产、销售和服务

注册地址: 重庆市北部新区黄山大道中段61号3号厂房

经营地址: 重庆市北部新区黄山大道中段61号

初次发证日期: 2010年12月09日
再认证日期: 2019年11月15日
本次发证日期: 2020年11月12日
证书有效期至: 2022年12月08日

新世纪检验认证有限责任公司
总经理:

尚志强



BCC地址: 北京市西城区国英园1号楼11层1101室
本证书在国家规定的各行政许可。获证许可有效期内使用有效。
获证组织必须定期接受监督审核并合格, 此证书方继续有效。
证书有效性可通过网站: www.bcc.com.cn 查询, 也可二维码查询。
本证书信息可在国家认监委网站www.cnca.gov.cn 查询。



中国认可
国际互认
管理体系
MANAGEMENT SYSTEM
CNAS C016-M





CERTIFICATE OF ENVIRONMENT MANAGEMENT SYSTEM CERTIFICATION

Certificate No.016CQ19E31582R3L-8
Unified social credit code:91500000663597362T

This is to Certify that the Environment Management System of

**CHONGQING SILIAN MEASUREMENT AND CONTROL
TECHNOLOGY CO., LTD.**

is in conformity with
GB/T24001-2016 idt ISO14001:2015 Standard, applies to

DESIGN / DEVELOPMENT, PRODUCTION, SALES AND SERVICE OF INTELLIGENT PRESSURE
TRANSMITTER AND PARTS, PRE SIGNAL PROCESSING INSTRUMENT, DIGITAL INSTRUMENT,
MATERIAL LEVEL INSTRUMENT AND DC POWER SUPPLY PRODUCTS

REGISTERED ADDRESS:NO.3 WORKSHOP, NO.61, MIDDLE SECTION OF MOUNT HUANGSHAN
AVENUE, NORTHERN NEW DISTRICT, CHONGQING, P.R.C.
OPERATION ADDRESS:NO.61, MIDDLE SECTION OF MOUNT HUANGSHAN AVENUE,
NORTHERN NEW DISTRICT, CHONGQING, P.R.C.

Date of Initial Issuance:Dec. 9, 2010
Date of Re-certification Issuance:Nov. 15, 2019
Date of Issuance:Nov. 12, 2020
Date of Expiration:Dec. 8, 2023

BCC Inc.
President

尚志强



BCC Address: Room 1101, Floor 11, Building 1, Guoyingyuan, Xichang District, Beijing, P.R.C.
This certificate is valid within state - specified validities of administrative and qualification licensing.
The effectiveness of this certificate shall be maintained by regular surveillance audit.
The validity of the certificate can be inquired through www.bcc.com.cn or by QR code.
The information of this certificate available for inquiry on CNCA's website: www.cnca.gov.cn.



中国认可
国际互认
管理体系
CNAS C016-M

MANAGEMENT SYSTEM CERTIFICATE and





Certificate of Occupational Health and Safety Management System Certification

职业健康安全管理体系认证证书

注册号: 016CQ20S32555R2L-8
统一社会信用代码: 91500000663597362Y

兹 证 明

重庆四联测控技术有限公司

职业健康安全管理体系符合
GB/T 45001-2020 idt ISO 45001:2018标准, 适用于

智能压力变送器及零部件、前级信号处理仪表、数字仪表、物位仪表和直流电
源产品的设计/开发、生产、销售和服务

注册地址: 重庆市北部新区黄山大道中段61号3号厂房

经营地址: 重庆市北部新区黄山大道中段61号

初次发证日期: 2013年01月17日
再认证日期: 2018年12月21日
本次发证日期: 2020年11月12日
证书有效期至: 2021年12月20日

新世纪检验认证有限责任公司
总经理:

尚志强



BCC地址: 北京市西城区国英园1号楼11层1101室
本证书在国家规定的各行政许可、资质许可有效期内使用有效
获证组织必须定期接受监督审核并获合格, 此证书方继续有效。
证书有效性可通过网站: www.bcc.com.cn 查询, 也可二维码查询
本证书信息可在国家认监委网站www.cnca.gov.cn 查询

注: 本证书的有效性依赖于获证组织的有效性, 应与主证书一起使用。
BCC



中国认可
管理体系
MANAGEMENT SYSTEM
CNAS C016-M





CERTIFICATE OF OCCUPATIONAL HEALTH AND SAFETY MANAGEMENT SYSTEM CERTIFICATION

Certificate No.016CQ20S32555R2L-8
Unified social credit code:91500000663597362T

This is to Certify that the Occupational Health and Safety Management System of

**CHONGQING SILIAN MEASUREMENT AND CONTROL
TECHNOLOGY CO., LTD.**

is in conformity with
GB/T 45001-2020 idt ISO 45001:2018 Standard, applies to

DESIGN / DEVELOPMENT, PRODUCTION, SALES AND SERVICE OF INTELLIGENT PRESSURE
TRANSMITTER AND PARTS, PRE SIGNAL PROCESSING INSTRUMENT, DIGITAL INSTRUMENT,
MATERIAL LEVEL INSTRUMENT AND DC POWER SUPPLY PRODUCTS

REGISTERED ADDRESS:NO.3 WORKSHOP, NO.61, MIDDLE SECTION OF MOUNT HUANGSHAN
AVENUE, NORTHERN NEW DISTRICT, CHONGQING, P.R.C.
OPERATION ADDRESS:NO.61, MIDDLE SECTION OF MOUNT HUANGSHAN AVENUE,
NORTHERN NEW DISTRICT, CHONGQING, P.R.C.

Date of initial issuance:Jan. 17, 2013
Date of Re-certification issuance:Dec. 21, 2018
Date of issuance:Nov. 12, 2020
Date of Expiration:Dec. 20, 2021

BCC Inc.
President:

尚志强



BCC Address: Room 1101, Floor 11, Building 1, Guoyingjies, Xibei District, Beijing, P.R.C.
This certificate is valid within state - specified validity of administrative and qualification licensing.
The effectiveness of this certificate shall be maintained by regular surveillance audit.
The validity of the certificate can be inquired through www.bcc.com.cn or by QR code.
The information of this certificate available for inquiry on CNCA's website: www.cnca.gov.cn.

Note: The validity of this sub-certificate depends on the main certificate and shall be used with the main certificate.

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管理体系
MANAGEMENT SYSTEM
CNAS C016-M





ATEX Ex Certificate TÜV 16 ATEX 7983 X

(1) EU-TYPE EXAMINATION CERTIFICATE



- (2) Equipment and Protective Systems intended for use in
Potentially Explosive Atmosphere - **Directive 2014/34/EU**
- (3) EU-Type Examination Certificate Number

TÜV 16 ATEX 7983 X

Issue: 00

- (4) Equipment: **Pressure transmitter, Model PDS Series**
- (5) Manufacturer: **Chongqing Silian Measure & Control Technology Co., Ltd.**
- (6) Address: **No.61 Middle Section Huangshan Ave, North New Zone Chongqing 401121
P.R. China.**

- (7) This product and any acceptable variation thereto are specified in the schedule to this certificate and the documents therein referred to.
- (8) The TÜV Rheinland Zertifizierungsstelle für Explosionsschutz of TÜV Rheinland Industrie Service GmbH, Notified Body No. 0035 in accordance with Article 21 of the Council Directive 2014/34/EU of 26th February 2014, certifies this product which has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment and protective systems intended for use in potentially explosive atmosphere, given in Annex II to the Directive.
- The examination and test results are recorded in the confidential report GC/Ex7983.00/16
- (9) Compliance with the Essential Health and Safety Requirements, with the exception of those listed in the schedule of this certificate, has been assessed by reference to:
- EN 60079-0:2012/A11:2013 EN 60079-1:2014 EN 60079-11:2012 EN 60079-26:2015**
- (10) If the sign "X" is placed after the certificate number, it indicates that the equipment is subject to special conditions for safe use specified in the schedule to this certificate.
- (11) This EU-Type Examination Certificate relates only to the design and specification for construction of the equipment or protective system. It does not cover the process for actual manufacture or supply of the equipment or protective system, for which further requirements of the directive are applicable.
- (12) The marking of the equipment shall include the following:



II 1 G Ex Ia IIC T4 Ga or



II 2 G Ex db IIC T6...T4 Ga/Gb

TÜV Rheinland Zertifizierungsstelle für Explosionsschutz

Cologne, 2020-05-11

Dipl.-Ing. Klaus Peter Graf

This EU-Type Examination Certificate without signature and stamp shall not be valid.
This EU-Type Examination Certificate may be circulated only without alteration. Extracts or alterations are subject to approval by the
TÜV Rheinland Industrie Service GmbH TÜV Rheinland Group Am Grauen Stein 51105 Köln
Tel. +49 (0) 221 806-0 Fax. + 49 (0) 221 806 114

www.tuv.com





(13) Annex

(14) **EU Type Examination Certificate**
TÜV 16 ATEX 7983 X Issue: 00

(15) Description of equipment

15.1 Equipment and type:

Pressure transmitter, model PDS Series
(PDS803, PDS805, PDS813, PDS843, PDS863, PDS873, PDS879 and PDS883)

15.2 Description / Details of Change

General product information

PDS series pressure transmitter comprises a complete range of instruments for measuring gauge, differential and absolute pressure. The function of the pressure transmitter is that converting the input pressure signal into a standardized analog output current signal of 4-20 mA. Pressure transmitter is a fixed installed apparatus and the enclosure is made of aluminum alloy ADC12 or stainless steel JIS G5121-2003 SCS14, including a glass window cover and a plastic key cover.

Electronic circuits of PDS pressure transmitter are comprise terminal board (anti-surge terminal board), main board, display board and acquisition board. Four PCB boards are installed in the aluminum alloy or stainless steel enclosure with IP67 rating, and the terminal board and acquisition board are encapsulated completely by two components addition silicone rubber WR7306.

The terminal board has two different versions one for standard version and other one is lightning protection version.

Intended use:

PDS series pressure transmitter are designed and constructed with type ia or type db for different application purpose.

When it is used with type "ia", PDS series pressure transmitter is powered by a certified safety barrier with same EPL.

When it is used with type "db", a flameproof enclosure is provided for intended purpose and the pressure transmitter will be installed into EPL Ga area and across to EPL Gb in accordance with IEC/EN 60079-26.

ATEX and IECEx certified NPT1/2" or M20x1.5 entry devices (made by metallic materials) to be used on the flameproof enclosure of PDS pressure transmitter.

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Zertifizierungsstelle of TÜV Rheinland Industrie Service GmbH



Note:

The same flameproof enclosure to be used even if the PDS pressure transmitter with type of protection "ia" and only difference is the ATEX and IECEx certified cable entry devices and blind plugs are made of non-metallic materials in this case.

Type code:

Refer to Ex instructions for detailed information.

Technical Data

Electrical data:

Intrinsically safe parameters:

Ui=28Vdc

Ii=100mA

Pi=0.7W

Ci=40nF

Li=0.7mH

Rated voltage: +28VDC (equipment to be used with type of protection "db")

Environmental data:

The pressure transmitter PDS series to be used with the following temperature parameters:

Process connection temperature range*	Ambient temperature range Ta	Temperature class	Remark
-40°C to +70°C	-40°C to +70°C	T6	For type "db" application only
-40°C to +80°C	-40°C to +80°C	T5	
-40°C to +120°C	-40°C to +80°C	T4	For both type "db" and type "ia" application

* The actual maximum medium temperature range is -90°C~+400°C, and the temperature of process connection shall not exceeding -40°C to +120°C by field installation via end user according to the approved instruction.

Medium temperature:

"-40°C~+120°C" without remote flange module

"-90°C~+400°C" with remote flange module

IP Rating: IP67

(16) Test-Report No. GC/Ex7983.00/16

(17) Special Conditions for safe use

1. When the equipment to be used with type of protection "ia", the equipment shall be powered by powered by an intrinsically safe associated apparatus with same EPL as a minimum and the intrinsically safe parameters are stated in the instruction should be observed.

This EU Type Examination Certificate without signature and official stamp shall not be valid.
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2. Only ATEX/IECEX certified cable glands and blanking elements with suitable protection level can be used. Installation processes and suitable cable spec should be followed according to the manufacturer's documents.
3. The cable entry point and the branching point of conductor is 81.8°C and 86.9°C respectively when the equipment operated under medium temperature does not exceed +80°C. The cable entry point and the branching point of conductor is 89.8°C and 94.9°C respectively when the equipment operated under medium temperature exceed +80°C (between +80°C to +120°C).
End user need to choose the proper cable and cable gland for intended use.
4. When some pressure transmitters used with medium temperature range "-90°C~+400°C" (with remote flange module), the correct installation method should be observed in accordance with the instruction so that the temperature at the process connection does not exceed +120°C.
5. It is not allowed to disassemble the measuring head module to avoid the sealed silicone oil lost and this action can be impact the boundary (partition walls) from EPL Ga to EPL Gb and it will be result in invaliding the type of protection "db".
6. For safety, the work conditions, containing ambient temperature, medium temperature and medium pressure must be identified for different models under different application.

Process connection temperature range*	Ambient temperature range Ta	Temperature class	Remark
-40°C to +70°C	-40°C to +70°C	T6	For type "db" application only
-40°C to +80°C	-40°C to +80°C	T5	
-40°C to +120°C	-40°C to +80°C	T4	For both type "db" and type "ia" application

*The actual maximum medium temperature range is -90°C~+400°C, and the temperature of process connection shall not exceeding -40°C to +120°C by field installation via end user according to the approved instruction.

7. External earthing should be fixed before use in accordance with the instruction.
8. WARNING – DO NOT OPEN WHEN AN EXPLOSIVE ATMOSPHERE IS PRESENT.
9. Do not access the plastic key assembly when an explosive atmosphere is present and the surface cleaning of equipment with damp cloth only. For minimize the risk form electrostatic charge, the equipment is intended use in the specified humidity conditions in the instruction.
10. Additional method should be taken to void an ignition hazard due to impact or friction when the equipment to be used in Zone 0 with an aluminum alloy enclosure.

(18) Basic Safety and Health Requirements

Covered by afore mentioned standard

TÜV Rheinland Zertifizierungsstelle für Explosionsschutz

Cologne, 2020-05-11

Dipl.-Ing. Klaus Peter Graff

This EU Type Examination Certificate without signature and official stamp shall not be valid.
This certificate may be circulated without alteration. Extracts or alterations are subject to approval by:
Zertifizierungsstelle of TÜV Rheinland Industrie Service GmbH



IECEx TUR Ex system certificate

 		IECEx Certificate of Conformity	
INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification System for Explosive Atmospheres for rules and details of the IECEx Scheme visit www.iecex.com			
Certificate No.:	IECEx TUR 16.0061X	Page 1 of 4	Certificate history
Status:	Current	Issue No:	0
Date of Issue:	2020-05-11		
Applicant:	Chongqing Silian Measure & Control Technology Co., Ltd. No.61 Middle Section Huangshan Ave, North New Zone Chongqing 401121 China		
Equipment:	Pressure Transmitter Model PDS Series		
Optional accessory:			
Type of Protection:	Equipment protection by flameproof enclosures "db", Equipment protection by intrinsic safety "ia" and Equipment with Equipment Protection Level (EPL) Ga		
Marking:	Ex ia IIC T4 Ga or Ex db IIC T6...T4 Ga/Gb		
Approved for issue on behalf of the IECEx Certification Body:		Dipl.-Ing. Klauspeter Graffi	
Position:		Head of Certification Body	
Signature: (for printed version)			
Date:		2020-05-11	
1. This certificate and schedule may only be reproduced in full. 2. This certificate is not transferable and remains the property of the issuing body. 3. The Status and authenticity of this certificate may be verified by visiting www.iecex.com or use of this QR Code.			
Certificate issued by: TUV Rheinland Industrie Service GmbH Am Grauen Stein 51105 Cologne Germany			



IECEx Certificate of Conformity

Certificate No.: IECEx TUR 16.0061X Page 2 of 4

Date of issue: 2020-05-11 Issue No: 0

Manufacturer: **Chongqing Silian Measure & Control Technology Co., Ltd.**
No.61 Middle Section Huangshan Ave, North New Zone Chongqing 401121
China

Additional
manufacturing
locations:

This certificate is issued as verification that a sample(s), representative of production, was assessed and tested and found to comply with the IEC Standard list below and that the manufacturer's quality system, relating to the Ex products covered by this certificate, was assessed and found to comply with the IECEx Quality system requirements. This certificate is granted subject to the conditions as set out in IECEx Scheme Rules, IECEx 02 and Operational Documents as amended

STANDARDS :

The equipment and any acceptable variations to it specified in the schedule of this certificate and the identified documents, was found to comply with the following standards

IEC 60079-0:2011 Explosive atmospheres - Part 0: General requirements
Edition:6.0

IEC 60079-1:2014-06 Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"
Edition:7.0

IEC 60079-11:2011 Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"
Edition:6.0

IEC 60079-26:2014-10 Explosive atmospheres - Part 26: Equipment with Equipment Protection Level (EPL) Ga
Edition:3.0

This Certificate **does not** indicate compliance with safety and performance requirements other than those expressly included in the Standards listed above.

TEST & ASSESSMENT REPORTS:

A sample(s) of the equipment listed has successfully met the examination and test requirements as recorded in:

Test Report:

[DE/TUR/ExTR16.0061/00](#)

Quality Assessment Report:

[DE/TUR/QAR19.0023/00](#)



IECEx Certificate of Conformity

Certificate No.: IECEx TUR 16.0061X

Page 3 of 4

Date of issue: 2020-05-11

Issue No: 0

EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

Pressure transmitter

Model name: PDS803, PDS805, PDS813, PDS843, PDS863, PDS873, PDS879 and PDS883

SPECIFIC CONDITIONS OF USE: YES as shown below:

1. When the equipment to be used with type of protection "Ia", the equipment shall be powered by an intrinsically safe associated apparatus with same EPL as a minimum and the intrinsically safe parameters are stated in the instruction should be observed.
2. Only IECEx certified cable glands and blanking elements with suitable protection level can be used. Installation processes and suitable cable spec should be followed according to the manufacturer's documents.
3. The cable entry point and the branching point of conductor is 81.8°C and 86.9°C respectively when the equipment operated under medium temperature does not exceed +80°C. The cable entry point and the branching point of conductor is 89.8°C and 94.9°C respectively when the equipment operated under medium temperature exceed +80°C (between +80°C to +120°C). End user need to choose the proper cable and cable gland for intended use.
4. When some pressure transmitters used with medium temperature range -90°C~+400°C* (with remote flange module), the correct installation method should be observed in accordance with the instruction so that the temperature at the process connection does not exceed +120°C.
5. It is not allowed to disassemble the measuring head module to avoid the sealed silicone oil and fluorocarbon oil lost and this action can be impact the boundary (partition walls) from EPL Ga to EPL Gb and it will be result in invaliding the type of protection "db".
6. For safety, the work conditions, containing ambient temperature, medium temperature and medium pressure must be identified for different models under different application.

Process connection temperature range*	Ambient temperature range Ta	Temperature class	Remark
-40°C to +70°C	-40°C to +70°C	T6	For type "db" application only
-40°C to +80°C	-40°C to +80°C	T5	
-40°C to +120°C	-40°C to +80°C	T4	For both type "db" and type "Ia" application

*The actual maximum medium temperature range is -90°C~+400°C, and the temperature of process connection shall not exceeding +40°C to +120°C by field installation via end user according to the approved instruction.

7. External earthing should be fixed before use in accordance with the instruction.
8. **WARNING – DO NOT OPEN WHEN AN EXPLOSIVE ATMOSPHERE IS PRESENT.**
9. Do not access the plastic key assembly when an explosive atmosphere is present and the the surface cleaning of equipment with damp cloth only. For minimize the risk form electrostatic charge, the equipment is intended use in the specified humidity conditions in the instruction.
10. Additional method should be taken to void an ignition hazard due to impact or friction when the equipment to be used in Zone 0 with an aluminum alloy enclosure.



IECEx Certificate of Conformity

Certificate No.: IECEx TUR 16.0061X

Page 4 of 4

Date of issue: 2020-05-11

Issue No: 0

Equipment (continued):

PDS series pressure transmitter comprises a complete range of instruments for measuring gauge, differential and absolute pressure. The function of the pressure transmitter is that converting the input pressure signal into a standardized analog output current signal of 4-20 mA. Pressure transmitter is a fixed installed apparatus and the enclosure is made of aluminum alloy ADC12 or stainless steel JIS G5121-2003 SCS14, including a glass window cover and a plastic key cover.

Electronic circuits of PDS pressure transmitter are comprised of terminal board(anti-surge terminal board), main board, display board and acquisition board. Four PCB boards are installed in the aluminum alloy or stainless steel enclosure with IP67 rating and the terminal board and acquisition board are encapsulated completely by two component addition silicone rubber WR7306. The terminal board has two different versions, one for standard version and other one is lighting protection version.

Intended use:

PDS series pressure transmitter are designed and constructed with type ia or type db for different application purpose. When it is used with type "ia", PDS series pressure transmitter is powered by a certified safety barrier with same EPL.

When it is used with type "db", a flameproof enclosure is provided for intended purpose, and the pressure transmitter will be installed into EPL Ga area and across to EPL Gb in accordance with IEC/EN 60079-26. ATEX and IECEx certified NPT1/2" or M20x1.5 entry devices(made by metallic materials) to be used on the flameproof enclosure of PDS pressure transmitter.

Note:

The same flameproof enclosure to be used even if the PDS pressure transmitter to be used with type of protection "ia", and only difference is the ATEX and IECEx certified cable entry devices and blind plugs are made of non-metallic materials in this case.

Refer to instruction for detailed information of model designation.

Electrical data

Intrinsically safe parameters:

Ui=28Vdc

Ii=100mA

Pi=0.7W

Ci=40nF

Li=0.7mH

Rated voltage: +28VDC(equipment to be used with type of protection "db")

Environmental data

The pressure transmitter PDS series to be used with the following temperature parameters:

Temperature at Process connection*	Ambient temperature range Ta	Temperature class	Remark
-40°C to +70°C	-40°C to +70°C	T6	
-40°C to +80°C	-40°C to +80°C	T5	For type "db" application only
-40°C to +120°C	-40°C to +80°C	T4	For both type "db" and type "ia" application

* The actual maximum medium temperature range is -90°C~+400°C, and the temperature of process connection shall not exceeding -40°C to +120°C by field installation via end user according to the approved instruction.

Medium temperature:

"-40°C~+120°C" without remote flange module

"-90°C~+400°C" with remote flange module

IP Rating: IP67



ATEX Explosion-proof certificate

(1) EU-TYPE EXAMINATION CERTIFICATE



- (2) Equipment and Protective Systems intended for use in
Potentially Explosive Atmosphere - **Directive 2014/34/EU**
- (3) EU-Type Examination Certificate Number

TÜV 16 ATEX 7983 X

Issue: 00

- (4) Equipment: **Pressure transmitter, Model PDS Series**
- (5) Manufacturer: **Chongqing Silian Measure & Control Technology Co., Ltd.**
- (6) Address: **No.61 Middle Section Huangshan Ave, North New Zone Chongqing 401121
P.R. China.**

- (7) This product and any acceptable variation thereto are specified in the schedule to this certificate and the documents therein referred to.
- (8) The TÜV Rheinland Zertifizierungsstelle für Explosionsschutz of TÜV Rheinland Industrie Service GmbH, Notified Body No. 0035 in accordance with Article 21 of the Council Directive 2014/34/EU of 26th February 2014, certifies this product which has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment and protective systems intended for use in potentially explosive atmosphere, given in Annex II to the Directive.

The examination and test results are recorded in the confidential report GC/Ex7983.00/16

- (9) Compliance with the Essential Health and Safety Requirements, with the exception of those listed in the schedule of this certificate, has been assessed by reference to:

EN 60079-0:2012/A11:2013 EN 60079-1:2014 EN 60079-11:2012 EN 60079-26:2015

- (10) If the sign "X" is placed after the certificate number, it indicates that the equipment is subject to special conditions for safe use specified in the schedule to this certificate.
- (11) This EU-Type Examination Certificate relates only to the design and specification for construction of the equipment or protective system. It does not cover the process for actual manufacture or supply of the equipment or protective system, for which further requirements of the directive are applicable.

- (12) The marking of the equipment shall include the following:



II 1 G Ex Ia IIC T4 Ga or



II 2 G Ex db IIC T6...T4 Ga/Gb

TÜV Rheinland Zertifizierungsstelle für Explosionsschutz

Cologne, 2020-05-11

Dipl.-Ing. Klaus Peter Graf

This EU-Type Examination Certificate without signature and stamp shall not be valid.
This EU-Type Examination Certificate may be circulated only without alteration. Extracts or alterations are subject to approval by the
TÜV Rheinland Industrie Service GmbH TÜV Rheinland Group, Am Grauen Stein 51105 Köln
Tel. +49 (0) 221 806-0 Fax. +49 (0) 221 806 114

www.tuv.com



PDS4 CCS Classification Society Certificate



中国船级社
CHINA CLASSIFICATION SOCIETY

证书编号/Certificate No.
CQ20PTB00027

型式认可证书

CERTIFICATE OF TYPE APPROVAL

兹证明本证书所述制造厂具备按照下列标准的要求生产本证书所列产品的能力和条件。
This is to certify that the manufacturing plant is capable of producing the products listed in this certificate in accordance with the following standards.

This is to certify that the manufacturer stated in the certificate meets the requirements of the standards listed below and is available with the ability and conditions to produce the products described in the certificate.

制造厂/Manufacturer

重庆四联测控技术有限公司

Chongqing Silian Measurement And Control Technology Co.,Ltd

地址/Address

重庆市北部新区黄山大道中段61号

No.61 Mid Part of Huangshan Road,Beibu new Zone,Chongqing,P.R.China

产品名称/Product

PDS智能压力变送器

PDS INTELLIGENT PRESSURE TRANSMITTER

压力变送器

Pressure Transmitter

认可标准/Approval Standard

1. 中国船级社《钢质海船入级规范》(2018) 及其修改通报第7篇第2章

Chapter 2, Part Seven of China Classification Society Rules for Classification of Sea-going Steel Ships 2018 and its Amendments

用于/Intended for

船舶与海上设施/Ships and Offshore Installations

证书有效期至/This Certificate is valid until

2024年11月27日 / Nov. 27, 2024

发证机构 中国船级社重庆分社

签发日期 2021年01月12日

Issued by CCS Chongqing Branch

Date Jan. 12, 2021

[illegible]

Form No: TD1, 联系方式/Contact Us: 见本社会言网站/See official web site of the Society (<http://www.ccs.org.cn>)



UTN:P021-91531336

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№ 21164022



High-tech products





证书号第1017723号



发明专利证书

发明名称：过程自动化系统 I/O 模块自动检测系统

发明人：苟华礼;李向林;谢彦辉;吴辉华;蒋黎明

专利号：ZL 2008 1 0237194.1

专利申请日：2008 年 12 月 22 日

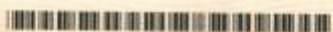
专利权人：重庆川仪自动化股份有限公司

授权公告日：2012 年 08 月 08 日

本发明经过本局依照中华人民共和国专利法进行审查，决定授予专利权，颁发本证书并在专利登记簿上予以登记。专利权自授权公告之日起生效。

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局长 田力普





证书号第3524421号



发明专利证书

发明名称：一种压力变送器的输入信号自动校准系统和方法

发明人：谢彦辉;黄云彪;聂绍忠

专利号：ZL 2016 1 0796896.8

专利申请日：2016年08月31日

专利权人：重庆四联测控技术有限公司

地址：401121 重庆市北部新区黄山大道中段9号

授权公告日：2019年09月10日

授权公告号：CN 106153250 B

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局长
申长雨

申长雨





证书号第1541227号



发明专利证书

发明名称：高精度硅传感器金属细管切割装置

发明人：张茂

专利号：ZL 2012 1 0592406.4

专利申请日：2012年12月31日

专利权人：重庆四联测控技术有限公司

授权公告日：2014年12月10日

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局长
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Chuanyi will always be there for our customer,
our customer is always the core for Chuanyi.

