中星测控®
CHINASTAR



Pressure Transmitters For HVAC-R Industry

暖通空调与制冷行业压力变送器

19*	19	1	1	9
中国发明专利 Chinese Invention Patent	中国商标 Chinese Trademark	美国商标 American Trademark	欧洲商标 European Trademark	软件著作权 Software Copyright

* 注：19项发明专利已授权且维持有效，详见第09页

*Note: The 19 invention patents are granted and maintained in-force. See Page 09 for details.

2026.8版

CS-PT1800



压力范围 Pressure Range	-1~10...50bar -14.5~145...725psi
精　　度 Accuracy	±1.5%F.S.
供电电源 Power Supply	5±0.25VDC
输出信号 Output Signal	0.5~4.5VDC(Ratio)
电气连接 Electrical Connections	Packard Epoxy Encaps. Leads
压力接口 Pressure Connections	7/16-20UNF-2B

特点及应用 Features & Applications

- 线性好 温漂小 Good Linearity Small Temperature Drift
- 抗电磁干扰性能强 Excellent Electromagnetic ImmuneAbility
- 高过载 High Over-load Pressure
- 全密封 防冷凝水 Fully Sealed Anti-condensation
- 空气源热泵 Air Source Heat Pumps
- 多联机 Multi-split Air Conditioner
- 精密机房空调 Precision Air Conditioning
- 模块机/单元机 Modular Unit Unit Plant

CS-PT1801



压力范围 Pressure Range	-1~10...50bar -14.5~145...725psi
精　　度 Accuracy	±0.6%F.S.　±1%F.S.
供电电源 Power Supply	8~30VDC
输出信号 Output Signal	4~20mA
电气连接 Electrical Connections	Packard
压力接口 Pressure Connections	7/16-20UNF-2B Φ6.35 Copper pipes

特点及应用 Features & Applications

- 全密封 防冷凝水 Fully Sealed Anti-condensation
- 抗电磁干扰性能强 Excellent Electromagnetic Resistance Ability
- 破坏压力高 High Burst Pressure
- 冷水螺杆机组 Chilled Water Screw Units
- 水源热泵机组 Water Source Heat Pump Units
- 地源热泵机组 Ground Source Heat Pump Units

CS-PT1803



压力范围 Pressure Range	-1~10...50bar
精　　度 Accuracy	±1%F.S. ±1.5%F.S.
供电电源 Power Supply	5±0.25VDC
输出信号 Output Signal	0.5~4.5VDC(Ratio)
电气连接 Electrical Connections	Packard
压力接口 Pressure Connections	7/16-20UNF-2B Φ6.35 Copper pipes

特点及应用 Features & Applications

- 全密封 防冷凝水 Fully Sealed Anti-condensation
- 抗电磁干扰性能强 Excellent Electromagnetic Resistance Ability
- 耐低温 Low Temperature Resistance
- 空气源热泵 Air Source Heat Pumps
- 热泵机组 Heat Pump Units
- 超低温定频/变频机组 Ultra-low Temperature Fixed Frequency / Frequency Conversion Units

CS-PT300G



压力范围 Pressure Range	-1~10...50bar -14.5~145...725psi
精　　度 Accuracy	±0.5%F.S.
供电电源 Power Supply	10~30 VDC, 5±0.25VDC
输出信号 Output Signal	4~20mA 0.5~4.5VDC(Ratio)
电气连接 Electrical Connections	Packard,M12 (4-pin), Waterproof cable outlet
压力接口 Pressure Connections	7/16-20UNF-2A 7/16-20UNF-2B

特点及应用 Features & Applications

- 全焊接结构无O型圈 All-welded Structure No O-ring
- 高过载 高爆破 High Over-load High Burst Pressure
- 高精度 High Accuracy
- 防冷凝水 Anti-condensation
- 冷水螺杆机组 Chilled Water Screw Units
- 水源热泵机组 Water Source Heat Pump Units
- 储能机组 Energy Storage Units
- 地源热泵机组 Ground Source Heat Pump Units
- 精密机房空调 Precision Air Conditioning
- 空气源热泵 Air Source Heat Pumps
- 多联机 Multi-Split Air Conditioner
- 工业冷冻机组 Industrial Refrigerating Units

CS-PT300GH



压力范围 Pressure Range	0~100...300bar(G) 0~1450...4350psi
精　　度 Accuracy	±0.5%F.S.
供电电源 Power Supply	10~30 VDC, 12~30 VDC 5±0.25VDC
输出信号 Output Signal	4~20mA/0~5 VDC 0~10 VDC 0.5~4.5VDC(Ratio)
电气连接 Electrical Connections	Packard,M12 (4-pin) DIN43650A Waterproof cable outlet
压力接口 Pressure Connections	7/16-20UNF-2B、7/16-20UNF-2A G1/4,G1/2,NPT1/4,NPT1/2 M20×1.5,ϕ6.35、ϕ6 Cu tube

特点及应用 Features & Applications

- 全焊接结构无O型圈 All-welded Structure No O-ring
- 正反向过电压保护 Forward & Reverse Overvoltage Protection
- 高精度 High Accuracy
- 防冷凝水 Anti-condensation
- 二氧化碳机组 Carbon Dioxide Unit
- 液压重工行业 Hydraulic Machinery Industry
- 测量和控制技术 Measurement and Control Technology
- 能源与动力设备 Energy and Power Equipment
- 清洗设备及流体设备 Cleaning Equipment and Fluid Equipment
- 工业高压气体 Industrial High-pressure Gas

CS-PT300GS



压力范围 Pressure Range	-1~5...50bar -14.5~75...725psi
精　　度 Accuracy	±1.0%F.S.
供电电源 Power Supply	10~30VDC
输出信号 Output Signal	4~20mA
电气连接 Electrical Connections	Packard
压力接口 Pressure Connections	7/16-20UNF-2A 7/16-20UNF-2B

特点及应用 Features & Applications

- 全密封 防冷凝水 Fully Sealed Anti-condensation
- 扩散硅充油芯体 Silicon Oil Sensor
- 正反向过电压 Forward and Reverse Overvoltage
- 冷水螺杆机组 Cold Water Screw Unit
- 工业冷冻机组 Industrial Refrigeration Unit
- 热泵机组 Heat Pump Units

CS-PT300G1 ▸



压力范围 Pressure Range	-1~0...50bar(G) -14.5~0...725psi
精　　度 Accuracy	±0.5%F.S.
供电电源 Power Supply	10~30 VDC, 12~30 VDC 5±0.25VDC
输出信号 Output Signal	4~20mA/0~5 VDC 0~10 VDC 0.5~4.5VDC(Ratio)
电气连接 Electrical Connections	Packard,M12 (4-pin) DIN43650A Waterproof cable outlet
压力接口 Pressure Connections	G1/4(M),G1/8(M) NPT1/4(M),NPT1/8(M) M10×1

特点及应用 Features & Applications

- 全焊接结构无O型圈 All-welded Structure No O-ring
- 正反向过电压保护 Forward & Reverse Overvoltage Protection
- 高精度 High Accuracy
- 防冷凝水 Anti-condensation
- 大型机房CDU水冷单元压力监测 Pressure Monitoring for CDU Water Cooling Units in Large Computer Rooms
- 工业大功率液冷系统压力测量 High-Power Industrial Liquid Cooling Pressure Measurement
- 冷水机组压力检测与保护 Chiller Pressure Detection & Protection
- 服务器内置冷板压力监测 Pressure Monitoring of Server Integrated Cold Plates
- 集中式液冷管路压力监控 Centralized Liquid Cooling Pipeline Pressure Monitoring

CS-PT300G2 ▸



压力范围 Pressure Range	-1~3bar(A) -14.5~43psi
精　　度 Accuracy	±0.5%F.S.
供电电源 Power Supply	10~30 VDC, 12~30 VDC 5±0.25VDC
输出信号 Output Signal	4~20mA/0~5 VDC 0~10 VDC 0.5~4.5VDC(Ratio)
电气连接 Electrical Connections	Packard,M12 (4-pin) DIN43650A Waterproof cable outlet
压力接口 Pressure Connections	G1/4,G1/8,M10×1 NPT1/4,NPT1/8

特点及应用 Features & Applications

- 全焊接结构无O型圈 All-welded Structure No O-ring
- 正反向过电压保护 Forward & Reverse Overvoltage Protection
- 高精度 High Accuracy
- 防冷凝水 Anti-condensation
- 大型机房CDU水冷单元压力监测 Pressure Monitoring for CDU Water Cooling Units in Large Computer Rooms
- 系统总压监测、水泵恒压控制、机房集中自控 System Total Pressure Monitoring, Pump Constant Pressure Control & Centralized Room Automatic Control
- 服务器内置冷板压力监测 Pressure Monitoring of Server Integrated Cold Plates
- 集中式液冷管路压力监控 Centralized Liquid Cooling Pipeline Pressure Monitoring

CS-PT300M



压力范围 Pressure Range	-1~10...50bar -14.5~145...725psi
精　　度 Accuracy	±1.0%F.S.
供电电源 Power Supply	5±0.25VDC
输出信号 Output Signal	0.5 ~ 4.5VDC(Ratio)
电气连接 Electrical Connections	Waterproof cable outlet
压力接口 Pressure Connections	7/16-20UNF-2B

特点及应用 Features & Applications

- 高过载 高爆破 High Over-load High Burst Pressure
- 抗电磁干扰性能强 Excellent Electromagnetic Resistance Ability
- 全焊接结构 无O型圈 无泄漏风险 All-welded Structure No O-ring No Leakage Risk
- 防冷凝水 Anti-condensation
- 空气源热泵 Air Source Heat Pumps
- 多联机 Multi-split Air Conditioner
- 精密机房空调 Precision Air Conditioning
- 工业冷冻机组 Industrial Refrigerating Units
- 模块机 Modular Unit
- 单元机 Unit Plant

CS-WPT300G



压力范围 Pressure Range	-1~10...50bar -14.5~145...725psi
温度范围 Temperature Range	-40℃~125℃ -40℉~257℉
精　　度 Accuracy	±0.5%F.S.
供电电源 Power Supply	10~30VDC
输出信号 Output Signal	4~20mA
电气连接 Electrical Connections	DIN43650A
压力接口 Pressure Connections	G1/4、NPT1/4

特点及应用 Features & Applications

- 全焊接结构 All-welded Structure
- 高精度 High Accuracy
- 压力温度一体 Pressure&Temperature Transmitter
- 双路4~20mA输出 Dual-channel 4~20mA Output
- 防冷凝水 Anti-condensation
- 磁悬浮机组 Maglev Units
- 水源热泵机组 Water Source Heat Pump Units
- 地源热泵机组 Ground Source Heat Pump Units
- 冷水螺杆机组 Chilled Water Screw Units
- 工业冷冻机组 Industrial Refrigerating Units

CS-WPT1800 ▸



压力范围 Pressure Range	0~10...40bar 0~145...580psi
温度范围 Temperature Range	-35℃~120℃ -31℉~248℉
精　　度 Accuracy	±1.0%F.S.
供电电源 Power Supply	5±0.25VDC
输出信号 Output Signal	0.5~4.5VDC(Ratio)
电气连接 Electrical Connections	4 Pin AMP Micro-Quadlok Connector
压力接口 Pressure Connections	M12×1.25 (M) NPT1/4 (M)

特点及应用 Features & Applications

- 多档压力量程可选 Multiple Pressure Range Options Available
- 高精度 High Accuracy
- 压力温度一体 Pressure&Temperature Transmitter
- 流体介质实时测温 Real-time Temperature Measurement of Fluid Medium
- 支持宽温域工作 Supports Wide Temperature Range Operation
- 中央空调、冷链空调与制冷系统 Central AC, Cold Chain AC & Refrigeration Systems
- 能源管理设备 Energy Management Equipment
- 车辆及工业发动机控制与状态监测 Vehicle & Industrial Engine Control & Monitoring
- 工业流体管路、冷媒循环系统工况检测 Industrial Pipeline & Refrigerant Loop Condition Monitoring

CS-PT1100 ▸

PED



压力范围 Pressure Range	0~5...50bar -14.5~75...725psi
精　　度 Accuracy	±0.5%F.S. ±1.0%F.S.
供电电源 Power Supply	8-30V, 5±0.25VDC
输出信号 Output Signal	4~20mA 0.5~4.5VDC(Ratio)
电气连接 Electrical Connections	Packard
压力接口 Pressure Connections	7/16UNF-2A, 7/16UNF-2B G1/4

特点及应用 Features & Applications

- 经济型 Economical
- 尺寸小巧 Small Size
- 制冷压缩机 Refrigeration Compressor
- 制冷除湿机 Refrigeration Dehumidifier
- 商用空调车 Commercial Air-conditioned Vehicles

CS-PT1202 ▸

CE PED RCHS



压力范围 Pressure Range	-1~2...400 bar -14.5~29...5800psi
精　　度 Accuracy	±0.5%F.S. ±1.0%F.S.
供电电源 Power Supply	10~30VDC, 12~30VDC 5±0.25VDC
输出信号 Output Signal	4~20mA,0~10V 0.5~4.5V(Ratio)
电气连接 Electrical Connections	DIN43650C, Packard,M12x1, Waterproof cable outlet
压力接口 Pressure Connections	7/16-20UNF-2A 7/16-20UNF-2B G1/4, NPT1/4, G1/2

特点及应用 Features & Applications

- 抗冷凝水 Condensation Resistant
- 中央空调 Central Air Conditioning
- 冷水螺杆机组 Chilled Water Screw Units
- 水源热泵机组 Water Source Heat Pump Units
- 地源热泵机组 Ground Source Heat Pump Units

CS-PT1350 ▸

CE cULus RCHS



压力范围 Pressure Range	-1~5...250bar -14.5~75...3625psi
精　　度 Accuracy	±1.0%F.S.
供电电源 Power Supply	8~36VDC
输出信号 Output Signal	4~20mA
电气连接 Electrical Connections	Packard
压力接口 Pressure Connections	Φ 6 x 60 Copper pipes

特点及应用 Features & Applications

- 抗电磁兼容性强 Strong Anti-electromagnetic Compatibility
- 高过载 High Over-load
- 大量程 最高可达250bar Large Range Can Reach Up to 250bar
- 耐盐雾 Salt Spray Resistant
- 二氧化碳机组 CO_2 Compressor Bundle
- 泵和压缩机 Pump and Compressor

CS-PT200D



压力范围 Pressure Range	-1~1bar...350bar -14.5~14.5...5076psi
精　　度 Accuracy	±0.5%F.S.
供电电源 Power Supply	24VDC
输出信号 Output Signal	4~20mA
电气连接 Electrical Connections	Fixed cable terminals
压力接口 Pressure Connections	M20X1.5

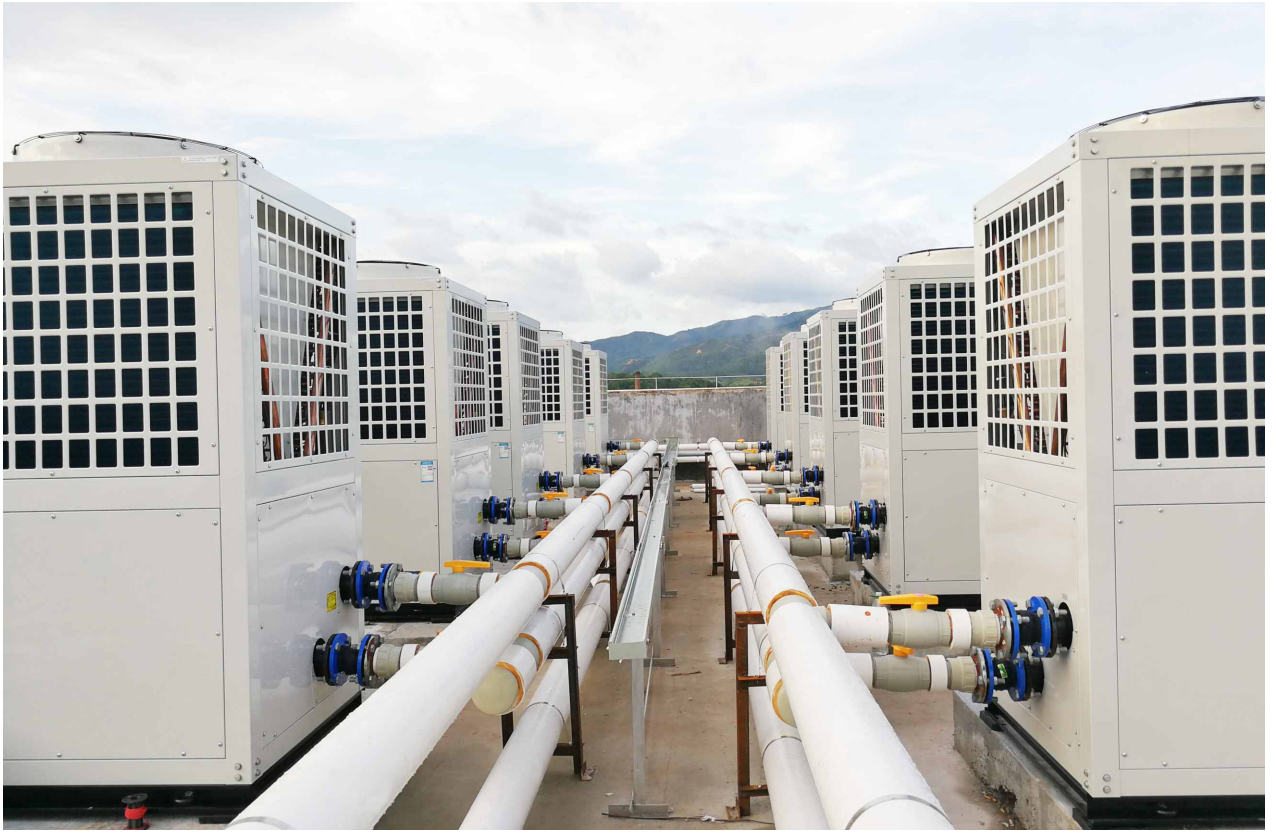
特点及应用 Features & Applications

符合防爆设计 *
Ex-compliant Design

防爆制冷机组
Explosion-proof Refrigeration Units

* 注:从外壳强度和组成外壳各零件的结合面间隙、长度及防止外壳最高表面温度等关键着手确保防爆性能。

* Note: Explosion-proof performance is ensured by focusing on key aspects including housing strength, the joint clearance and length of each component forming the housing, as well as measures to limit the maximum surface temperature of the housing.



授权发明专利清单
List of Granted Invention Patents

（共19 项，截至2026 年8月19日）
(19 patents in total, as of August 19, 2026)

序号 No.	专利类型 Patent Type	专利号 Patent Number
1	发明专利 Invention Patent	ZL200810232517.8
2	发明专利 Invention Patent	ZL202011400077.X
3	发明专利 Invention Patent	ZL202210896856.6
4	发明专利 Invention Patent	ZL202011511849.7
5	发明专利 Invention Patent	ZL202011563973.8
6	发明专利 Invention Patent	ZL201911382208.3
7	发明专利 Invention Patent	ZL201911382197.9
8	发明专利 Invention Patent	ZL201911385663.9
9	发明专利 Invention Patent	ZL201911385668.1
10	发明专利 Invention Patent	ZL202011611488.3
11	发明专利 Invention Patent	ZL200610105365.6
12	发明专利 Invention Patent	ZL202410005995.4
13	发明专利 Invention Patent	ZL201410850661.3
14	发明专利 Invention Patent	ZL202210164903.8
15	发明专利 Invention Patent	ZL201610313008.2
16	发明专利 Invention Patent	ZL201910422909.9
17	发明专利 Invention Patent	ZL201910422885.7
18	发明专利 Invention Patent	ZL202211205190.1
19	发明专利 Invention Patent	ZL202211720640.0

注：以上 19 项均为本公司已授权且维持有效的发明专利，专利证书及年费缴费凭证由本公司留存备查。本清单所列专利仅对应本公司特定产品、技术，并非全部产品均具备上述所有专利。查询方式：登录国家知识产权局专利公布公告系统（http://epub.cnipa.gov.cn/），输入专利号即可查询专利法律状态。

Note: The above 19 patents are granted and maintained in-force invention patents owned by our company. Patent certificates and annual-fee payment vouchers are kept by our company for inspection. The patents listed herein apply only to our company's specific products and technologies, and not all our products are covered by all the above-mentioned patents. To inquire about patent legal status: visit the CNIPA Patent Announcement System (http://epub.cnipa.gov.cn/) and enter the patent number.

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XI'AN CHINASTAR M&C LIMITED

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期待与您合作

产品 Product



暖通空调与制冷行业压力变送器

Pressure Transmitters For HVAC-R Industry

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Chairman of China Industrial Sensors Alliance

中国元协·敏感元件及传感器分会副理事长
Vice Chairman of the China Electronic Components Industry Association,Sensitive Components and Sensors Branch

中国传感器与物联网联盟副秘书长
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Director of Xi'an Science and Technology Equipment Industry Chamber of Commerce

西安高新区高新企业协会理事
Director of Xi'an High-tech Zone High-tech Enterprise Association

中国移动物联网联盟执委会智能传感专家
China Mobile IoT Alliance Executive Committee Intelligent Sensors Expert

中国制冷空调工业协会会员
Member of China Refrigeration And Air-Conditioning Industry Association

成为全球传感器界有影响力的创新型公司

To Be An Influential And Innovative Enterprise
In Global Sensor Field

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Note: Management-system certifications cover corporate operations; product approvals apply to designated models only. Certificates available upon request.

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