

压力传感器/变送器综合宣传册

Comprehensive Brochure on Pressure Sensors/
Transmitters

西安中星测控有限公司

XI'AN CHINASTAR M&C LIMITED



中国发明专利
Chinese
Invention Patent



美国发明专利
American
Invention Patent



中国商标
Chinese
Trademark



美国商标
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Software
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MCS压力传感器

MCS Pressure Sensor

航空航天 AEROSPACE

广泛应用于航空、航天、航海、高铁、半导体设备、压力计量、石油化工等领域

It is widely used in aviation, space flight, marine, high-speed train, semiconductor equipment, pressure measurement, petrochemical and other fields



5项国家发明专利
5 Invention Patents

3项实用新型专利
3 Utility Model Patents

✓ 宽温区 Wide Temperature Range

工作温度 Operation Temperature: $-65^{\circ}\text{C} \sim 180^{\circ}\text{C}$

✓ 高精度 High Precision

非线性 Non-linearity: $(\pm 0.5\%, \pm 0.25\%, \pm 0.1\%, \pm 0.05\%) \text{F.S.}$

迟滞 Hysteresis: $(\pm 0.05\%, \pm 0.02\%, \pm 0.01\%) \text{F.S.}$

重复性 Repeatability: $(\pm 0.05\%, \pm 0.02\%, \pm 0.01\%) \text{F.S.}$

✓ 高稳定性、高可靠性 Stability & Reliability

长期稳定性 Long-term Stability: $\leq \pm 0.1\% \text{F.S./Y}$, $\leq \pm 0.05\% \text{F.S./Y}$

✓ 低温漂、低时漂 T.C. Zero & Span

热零点漂移(补偿后) T.C. Zero (Compensated): $0.0025\% \text{F.S./}^{\circ}\text{C}$

热满量程漂移(补偿后) T.C. Span (Compensated): $0.0025\% \text{F.S./}^{\circ}\text{C}$

✓ 高爆破 High Burst Pressure

破坏压力 Burst Pressure: $\geq 3 \dots 20\text{X}$ ($<$ 材质强度极限
Material strength limit)

压力变送器

Pressure Transmitter

GUNO[®]

高端制造领域 High End Manufacturing Field

广泛应用于高端制造领域高精度流体测量及恶劣环境宽温区流体测量

It is widely used in high-precision fluid measurement in high-end manufacturing fields and wide temperature range fluid measurement in harsh environments



✓ 全温区精度高 High Accuracy in Full Temperature Range

全温区精度 Accuracy @ $-40^{\circ}\text{C} \sim +85^{\circ}\text{C}$: $(\pm 0.5\%, \pm 0.2\%, \pm 0.1\%, \pm 0.05\%) \text{F.S.}$

✓ 高稳定性、高可靠性 Stability & Reliability

长期稳定性 Long-term Stability: $\leq \pm 0.1\% \text{F.S./Y}$

✓ 全焊接，无密封圈 Full Welded, No Sealing Ring

✓ 不充油，无漏油风险 Oil-free, No Risk of Oil Leakage

✓ 高爆破 High Burst Pressure

破坏压力 Burst Pressure: $\geq 3\text{X} \sim 10\text{X}$ ($<$ 材质强度极限
Material strength limit)

✓ 反向电压保护 Reverse Voltage Protection



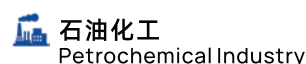
航空
Aviation



航天
Space Flight



压力计量
Pressure Measurement



石油化工
Petrochemical Industry



航海
Marine



高铁
High-speed Train



半导体设备
Semiconductor Equipment

压力变送器

Pressure Transmitter

			
CS-PT1100	CS-PT1100B	CS-PT1100W	CS-PT1100AC

压力范围 Pressure Range	0~5...50bar	0 ~ 5...50bar	0~5...50bar	0~16bar
常温精度 Accuracy @25	±0.5%F.S. , ±1%F.S.	±1.0%F.S.	±1.0%F.S.	±1.0%F.S.
供电电源 Power Supply	10~30VDC	10~30 VDC	12~30VDC	12~28VDC
输出信号 Output Signal	4~20mA 0.5~4.5VDC	4~20mA	4~20mA	4~20mA

			
CS-PT1105	CS-PT1109	CS-PT1200	CS-PT1200R

压力范围 Pressure Range	0~5...50bar	0~5...50bar	0~2...600bar	-0.5/0~10... 50bar
常温精度 Accuracy @25	±2%F.S.	±1.5%F.S.	±0.25%F.S. , ±0.5%F.S. ±1%F.S.	±1.0%F.S.
供电电源 Power Supply	5±0.25VDC	10~30VDC	10~30VDC, 5VDC	8~30VDC
输出信号 Output Signal	0.5~4.5VDC	4~20mA	4~20mA, 0.5 ~ 4.5V	4~20mA

			
CS-PT1202	CS-PT1206	CS-PT1350	CS-PT1800

压力范围 Pressure Range	-1~2...400bar	-0.5/0~10... 50bar	-1~5...250bar	-1~10...50bar
常温精度 Accuracy @25	±0.5%F.S. , ±1.0%F.S.	±1.0%F.S.	±1.0%F.S.	±1.5%F.S.
供电电源 Power Supply	10~30VDC, 12~30VDC 5VDC	8~30VDC	8~36VDC	5±0.25VDC
输出信号 Output Signal	4~20mA, 0.5~4.5VDC(ratio) 0 ~ 10VDC	4~20mA	4~20mA	0.5~4.5VDC(ratio)

压力变送器

Pressure Transmitter



CS-PT1801



CS-PT1803



CS-PT300G



CS-PT300M

压力范围 Pressure Range	-1~10...50bar	-1~10...50bar	-1~10...50bar	-1~10...50bar
常温精度 Accuracy @25	±0.6%F.S. , ±1%F.S.	±1%F.S., ±1.5%F.S.	±0.5%F.S.	±1%F.S.
供电电源 Power Supply	8~30VDC	5±0.25VDC	10~30 VDC, 5±0.25VDC	5±0.25VDC
输出信号 Output Signal	4~20mA	0.5~4.5VDC(ratio)	4~20mA 0.5~4.5VDC(ratio)	0.5 ~ 4.5VDC(ratio)



CS-PT300



CS-PT300S



CS-PT300F



CS-PT303

压力范围 Pressure Range	-1~0...1000bar	0~0.07...1000bar	-1 ~ 0.2...350bar	-1 ~ 10bar
常温精度 Accuracy @25	±0.25%F.S., ±0.5%F.S.	±0.5%F.S., ±1%F.S.	±0.25%F.S. ±0.5%F.S., ±1%F.S.	±0.25%F.S.
供电电源 Power Supply	10~30VDC, 8~24VDC 11~30VDC	8~30VDC, 12~30VDC	10~30VDC, 12~30VDC 5VDC	24VDC
输出信号 Output Signal	4~20mA, 0~5VDC 1~5VDC, 0 ~ 10VDC	4~20mA, 0~5VDC 1~5VDC, 1~6VDC 0 ~ 10VDC	4~20mA, 0~5VDC 0.5~4.5VDC(ratio) 0 ~ 10VDC	4~20mA



CS-PT200D



CS-PT602



CS-PT605A



CS-PT606

压力范围 Pressure Range	-1 ~ 1...350bar	0 ~ 0.07...1000bar	0 ~ 0.07...1000bar	0 ~ 20...1000bar
常温精度 Accuracy @25	±0.5%F.S.	±0.25%F.S., ±0.4%F.S.	±0.25%F.S., ±0.4%F.S.	±0.1%F.S., ±0.25%F.S.
供电电源 Power Supply	24VDC	5±0.25VDC 10 ~ 30VDC	9V Lithium Battery	10 ~ 30VDC
输出信号 Output Signal	4~20mA	RS485、MODBUS	USB	RS485、0~5VDC

压力变送器

Pressure Transmitter

																			
CS-PT607A					CS-PT609A					CS-PT623					CS-PT624				
压力范围 Pressure Range					0 ~ 0.07...1000bar					0 ~ 5...600bar					0 ~ 0.07...1000bar				
常温精度 Accuracy @25					±0.25%F.S., ±0.4%F.S.					±0.5%F.S.					±0.25%F.S., ±0.5%F.S.				
供电电源 Power Supply					10 ~ 30VDC					2.7 ~ 3.3VDC					24VDC				
输出信号 Output Signal					CAN					I ² C					4~20mA+继电器 relay				
																			
CS-PT700					CS-PT730					CS-PT830					CS-PT831				
测量范围 Range					0.1~400bar					0~50bar					0 ~ 10...1200bar				
精 度 Accuracy					±0.25%F.S., ±0.5%F.S.					±0.5%F.S., ±1.0%F.S.					±0.25%F.S. , ±0.5%F.S.				
供电电源 Power Supply					6~24 VDC, 10~30 VDC, 10~36 VAC, 20~36 VAC					10~30VDC, 12~30VDC 5VDC					10~30VDC 12 ~ 30VDC, 5VDC				
输出信号 Output Signal					4~20mA, 0~5VDC 0~10VDC					4~20mA, 0~5VDC 0.5~4.5VDC(ratio) 0 ~ 10VDC					4~20mA, 0~10VDC 0~5VDC, 0.5~4.5VDC(ratio)				
																			
CS-WPT300G					CS-WPT800														
测量范围 Range					-1~10...50bar(P) -40℃ ~ 105℃(T)					0~10...1200bar(P) -40℃ ~ 125℃(T)									
精 度 Accuracy					±0.5%F.S(P&T)					±0.5%F.S, ±1.0%F.S.(P) ±1.5℃(T)									
供电电源 Power Supply					10~30VDC					10~30VDC, 12~30VDC									
输出信号 Output Signal					4~20mA					4~20mA, 0.2 ~ 10.2VDC 0 ~ 10VDC, 0 ~ 5VDC									

注：P代表压力，T代表温度
Note: P represents pressure, T represents temperature

防爆压力变送器

Explosion Proof Pressure Transmitter

				
	CS-PT300E	CS-PT400E	CS-PT500E	CS-PT1200E
测量范围 Range	0 ~ 20bar(P)	0~3mH ₂ O(L)	0 ~ 3.5bar(P)	0 ~ 60bar(P)
精 度 Accuracy	±0.25%F.S.(P)	±0.25%F.S.(L)	±0.25%F.S.(P)	±0.25%F.S.(P)
供电电源 Power Supply	24±2.4 VDC	24±2.4 VDC	24±2.4 VDC	24±2.4 VDC
传输方式 Communication	4 ~ 20mA	4~20mA	4 ~ 20mA	4 ~ 20mA

注：P代表压力，L代表液位
Note: P represents pressure, T represents level

液位变送器

Level Transmitter

			
	CS-PT400/470	CS-PT403	CS-PT430
测量范围 Range	0~1…350mH ₂ O	0~1.5mH ₂ O	0~1…350mH ₂ O
常温精度 Accuracy @25	±0.25%F.S. , ±0.5%F.S.	±0.2%F.S.	±0.25%F.S. , ±0.5%F.S.
供电电源 Power Supply	12~30VDC,5VDC	12~36VDC	12~30VDC,5VDC
输出信号 Output Signal	4~20mA,0.5~4.5VDC 0~10VDC	4~20mA	4~20mA,0.5~4.5VDC 0~10VDC

液位变送器

Level Transmitter

				
	CS-PT440	CS-PT450	CS-PT460	CS-PT480
测量范围 Range	0~0.5...200mH ₂ O	0~0.5...200mH ₂ O	0~2...200mH ₂ O	0~1...350mH ₂ O
常温精度 Accuracy @25	±0.25%F.S. , ±0.5%F.S.	±0.25%F.S. , ±0.5%F.S.	±0.25%F.S. , ±0.5%F.S.	±0.25%F.S. , ±0.5%F.S.
供电电源 Power Supply	12~30VDC,5VDC	12~30VDC,5VDC	24VDC	3.1~4.2VDC,12~30VDC
输出信号 Output Signal	4~20mA,0.5~4.5VDC 0~10VDC	4~20mA,0.5~4.5VDC 0~10VDC	4~20mA	RS485

差压变送器

Differential Pressure Transmitter

				
	CS-PT500	CS-PT502	CS-PT503	CS-PT510i
测量范围 Range	0 ~ 10kPa...35bar	0 ~ 30KPa	0 ~ 6bar	0~5kPa
静 压 Static Pressure	≤200bar	≤40bar		
常温精度 Accuracy @25	±1.0%F.S.	±1.0%F.S.	±1.0%F.S.	±1.0%F.S.
供电电源 Power Supply	10~30VDC 12 ~ 30VDC,5VDC	12±2VDC	12 ~ 30VDC,24±10%VAC	24VDC
输出信号 Output Signal	4~20mA,0 ~ 5V, 0 ~ 10V,0.5 ~ 4.5V(ratio)	RS485 , MODBUS-RTU	4~20mA,0~10VDC	4~20mA

无线传感器

Wireless Sensor

				
	CS-iWPT301	CS-iWPT302-P	CS-iWPT302-T	CS-iWPT304
测量范围 Range	0~4...1000bar(P) -50°C ~ 150°C(T)	2/5/10/20/50bar(P) -40°C ~ 85°C(T)	-40°C ~ 85°C(T)	0 ~ 150bar(P) -50°C ~ 150°C(T)
精 度 Accuracy	±1.0%F.S.(P) ±1°C(T)	±0.5%F.S.(P) ±2°C(T)	±1°C、±2°C(T)	±0.5%F.S.(P) ±1.5°C(T)
供电电源 Power Supply	3.6VDC lithium battery 8~30VDC external power	3.6VDC Lithium battery	3.6VDC Lithium battery	3.3~3.6VDC lithium battery
传输方式 Communication	Bluetooth 4.2	Bluetooth 5.1	Bluetooth 5.1	NB-IoT

注：P代表压力，T代表温度

Note: P represents pressure, T represents temperature

无线传感器

Wireless Sensor

				
	CS-iPT608C	CS-iTPT-01	CS-iLLS-02	CS-iWPVT-01
测量范围 Range	0 ~ 400bar(P)	0~10bar(P)	0~200mH ₂ O(L) -25°C ~ 85°C(T)	0~68bar(P) (-20°C ~ 125°C)±3°C(T) ±2/±4/±8/±16g(A) bandwidths 1Hz-1.5KHz(V)
精 度 Accuracy	±0.5%F.S.(P)	±0.5%F.S.(P)	±0.5%F.S.(L) ±1.0°C(T)	
供电电源 Power Supply	3.6VDC Lithium battery	3.0~3.6VDC lithium battery	3.6VDC lithium battery 10~30VDC external power	3.6VDC lithium battery
传输方式 Communication	ZigBee	NB-IoT, LoRaWAN	GSM/4G	Bluetooth 5.0

注：P代表压力，T代表温度，L代表液位，A代表加速度，V代表振动频率

Note: P represents pressure, T represents temperature, L represents level, A represents acceleration, V represents vibration frequency

部分典型应用

Partial Typical Application

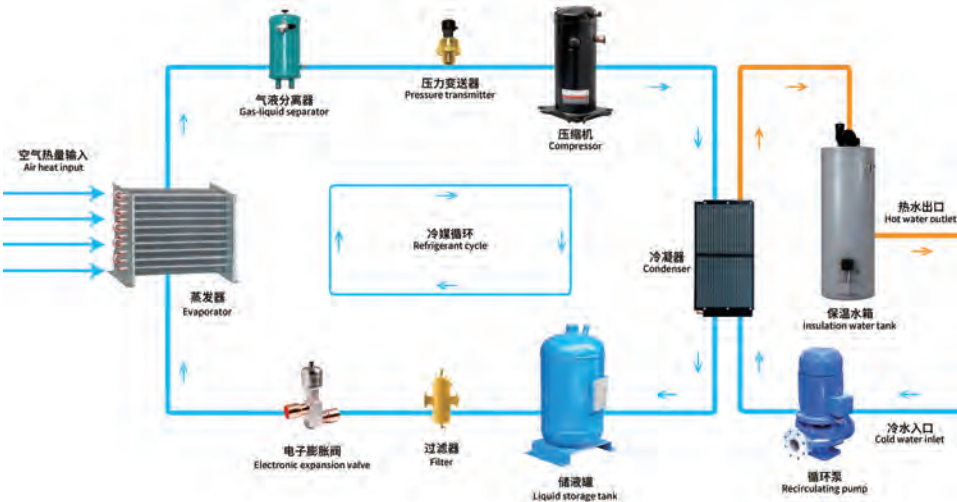
暖通制冷

HVAC&R



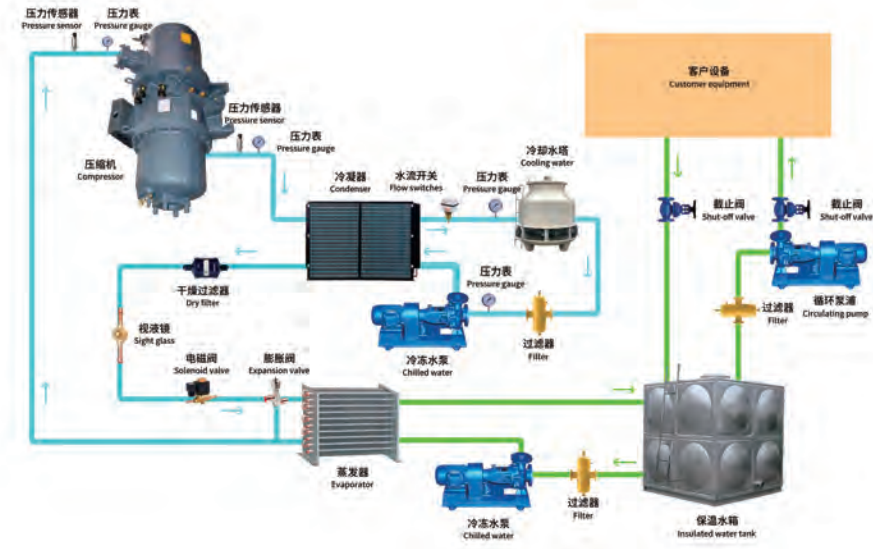
压力变送器在
空气源热泵中的应用 ▶

Application of Pressure Transmitter
in Air Source Heat Pump



压力变送器在
冷水机组中的应用 ▶

Application of Pressure Transmitter
in Chiller Units



部分典型应用

Partial Typical Application

空压机

Air
Compressor



CS-PT1100B

供水

Water Supply



CS-PT1100W



CS-PT400/470

工程机械 Construction Machinery



CS-PT830



CS-PT831



CS-PT1200



液压设备 Hydraulic Equipment



CS-PT830



CS-PT831



CS-PT1200



光伏设备 Photovoltaic Equipment



CS-PT303

船舶 Shipping



CS-PT403



CS-PT460

水处理 & 地下水测量

Water Treatment & Ground
Water Measurement



CS-PT400/470



CS-PT430



CS-PT480

部分典型应用

Partial Typical Application

仪器仪表
Instrumentation



楼宇自动化
Building Automation



电梯
Lift



氢燃料电池
Hydrogen Fuel Cell



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陕西省传感器与物联网产业联盟理事长

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中国仪器仪表协会传感器分会副理事长

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中国元协·敏感元件及传感器分会副理事长

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中国制冷空调工业协会会员

Member of China Refrigeration And Air-Conditioning Industry Association

陕西省物联网产业链链主企业

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中国传感器与物联网联盟副秘书长

Deputy Secretary General of China Sensors and IoT Alliance

西安市物联网产业链链主企业

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Member of the Heat Pump Branch of China Refrigeration and Air Conditioning Industry Association

【企业愿景】成为全球传感器界有影响力的创新型公司

[Corporate Vision] To Be An Influential And Innovative Enterprise
In Global Sensor Field



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