中星测控
CHINASTAR



Wireless Pressure/ Temperature/ Level Monitor

无线压力/温度/液位传感器

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06页

*Note: The 19 invention patents are granted and maintained in-force. See Page 06 for details.

2026.8版

无线蓝牙压力温度传感器

Wireless Bluetooth Pressure & Temperature Monitor



CS-iWPT301

名称 Parameters	技术参数 Specifications
传输方式 Communication Mode	Bluetooth 4.2
供电方式 Power Supply	3.6VDC Lithium Battery
	8~30VDC External Power
电池寿命 Battery Life	> 1 Year
压力量程 Pressure Range	0~0.4...100MPa
压力精度 Pressure Accuracy	±1.0%F.S.
温度量程 Temperature Range	-50℃ ~ 150℃
温度精度 Temperature Accuracy	±1℃
防护等级 Ingress Protection	IP65

注：压力量程可选择
Note: Pressure ranges are optional

- ☑ **支持1路压力、多路温度同时测量**
  Simultaneous measurement of 1-way pressure and multi-way temperature
- ☑ **锂电池或外部电源供电**
  Lithium battery or external power supply
- ☑ **支持上下限报警阈值设置**
  Upper and lower limit alarm threshold configurable
- ☑ **支持采样和发送时间间隔设置**
  Sampling and sending interval configurable
- ☑ **APP随时链接设备读取传感器数据**
  Users can link the APP to devices at any time to read sensor data

应用领域 Application

适用于冷媒压力监测，输油、输气、供暖等输送管道压力/温度监测
Suitable for refrigerant pressure monitoring, oil, gas and heating pipeline pressure & temperature monitoring

无线压力温度传感器

Wireless Pressure & Temperature Monitor



CS-iWPT304

名称 Parameters	技术参数 Specifications
传输方式 Communication Mode	NB-IoT
供电方式 Power Supply	3.3~3.6VDC Lithium Battery
电池寿命 Battery Life	≥2 Years
压力量程 Pressure Range	0~15MPa
压力精度 Pressure Accuracy	±0.5%F.S.
温度量程 Temperature Range	-50℃ ~ 150℃
温度精度 Temperature Accuracy	±1.5℃
防护等级 Ingress Protection	IP65

注：压力量程可选择
Note: Pressure ranges are optional

- ☑ **压力、温度一体式测量**
  Pressure & temperature integrated measurement
- ☑ **液晶显示，读数直观**
  LCD display enables easy numerical reading
- ☑ **超低功耗≤15uA，电池寿命长达2 年以上**
  Ultra low power consumption≤15uA
  Battery life≥2 years
- ☑ **支持上下限报警阈值设置**
  Upper and lower limit alarm threshold configurable
- ☑ **支持采样和发送时间间隔设置**
  Sampling and sending interval configurable

应用领域 Application

适用于输油、输气、供暖等管道压力温度一体监测
Suitable for oil, gas, heating and other pipeline pressure and temperature integrated monitoring

蓝牙无线压力传感器
Bluetooth Wireless Pressure Sensor

CS-iWPT302-P



名称 Parameters	技术参数 Specifications
传输方式 Communication Mode	Bluetooth 5.1
供电方式 Power Supply	3.6VDC Lithium Battery
电池寿命 Battery Life	> 5 Years
压力量程 Pressure Range	2/5/10/20/50bar
压力精度 Pressure Accuracy	±0.5%F.S.
温度量程 Temperature Range ①	-40℃ ~ 85℃
温度精度 Temperature Accuracy	±2℃
防护等级 Ingress Protection	IP65

注1：此温度为产品内部环境温度
Note 1:This temperature is the internal ambient temperature of the product

- ☑ **尺寸小巧、方便安装**
  Compact size,easy to use
- ☑ **磁钢激活**
  Magnet activation
- ☑ **温压一体监测**
  Temperature & pressure integrated
- ☑ **定时采样**
  Regular sampling & broadcasting
- ☑ **配套小程序查看数据**
  View data on APP

应用领域 Application

适用于泵、压缩机、液压机、机械、挖掘机、气动设备的压力测量
For pressure measurement for pumps, compressors, hydraulic machinery, excavators, pneumatic equipment

蓝牙无线温度传感器
Bluetooth Wireless Temperature Sensor

CS-iWPT302-T



名称 Parameters	技术参数 Specifications
传输方式 Communication Mode	Bluetooth 5.1
供电方式 Power Supply	3.6VDC Lithium Battery
电池寿命 Battery Life	> 5 Years
温度量程 Temperature Range ②	-40℃ ~ 85℃ (标准型Standard Type) -40℃ ~ 125℃ (非标型Non-standard Type)
温度精度 Temperature Accuracy	±1℃
浸入管直径 Immersion Tube Diameter	Φ6mm
防护等级 Ingress Protection	IP65

注2：标准型可短时进行-40℃ ~ 125℃温度测量
Note 2:The standard model can measure temperatures between -40°C and 125 °C for a short period of time

- ☑ **测温元件：铂电阻**
  Temperature Measuring Element: Platinum Resistance
- ☑ **尺寸小巧、方便安装**
  Compact size,easy to use
- ☑ **磁钢激活**
  Magnet activation
- ☑ **定时采样**
  Regular sampling & broadcasting
- ☑ **配套小程序查看数据**
  View data on APP

应用领域 Application

适用于工厂罐体温度监控、温度巡查
For temperature monitoring and temperature inspection of plant tanks

分体式无线压力传感器
Split Wireless Pressure Monitor

CS-iTPT-01



名称 Parameters	技术参数 Specifications
传输方式 Communication Mode	NB-IoT, LoRaWAN
供电方式 Power Supply	3.0~3.6VDC Lithium Battery
电池寿命 Battery Life	5 Years
压力量程 Pressure Range	0~1.0MPa
压力精度 Pressure Accuracy	±0.5%F.S.
防护等级 Ingress Protection	IP65

注：压力量程可定制
Note: Pressure ranges can be customized

- ☑ **低功耗设计，电池寿命长达5年**
  Low power consumption, battery life up to 5 years
- ☑ **检测准确，无需布线，通信可靠**
  Accurate detection, no wiring, reliable communication
- ☑ **支持压力上下限报警阈值设置**
  Upper and lower Pressure limit alarm threshold configurable
- ☑ **传感器和发送器分体设计，压力传感器选择灵活多样**
  Split design of sensors and transmitters, various options for sensors

应用领域
Application

适用于水箱、管道、油箱、立交桥下、下穿隧道等压力监测
Suitable for pressure monitoring of water tanks, pipelines, oil tanks, under the overpasses, underpass tunnels, etc.

分体式无线液位传感器
Split Wireless Level Monitor

CS-iTLLS-05



名称 Parameters	技术参数 Specifications
传输方式 Communication Mode	NB-IoT, LoRaWAN
供电方式 Power Supply	3.6VDC Lithium Battery
	12VDC/24VDC External Power
电池寿命 Battery Life	≥3 Years
液位量程 Level Range	0~5m$H_2$0
液位精度 Level Accuracy	±0.5%F.S.
防护等级 Ingress Protection	IP65

注：液位量程可定制
Note: Level ranges can be customized

- ☑ **支持外部供电和电池供电两种方式**
  Battery and external power supply optional
- ☑ **低功耗设计，电池寿命可达3年**
  Low power consumption, battery life up to 3 years
- ☑ **支持上下限报警阀值设置**
  Upper and lower limit alarm threshold configurable
- ☑ **传感器和发送器分体设计，液位传感器选择灵活多样**
  Split design of sensors and transmitters, various options for sensors

应用领域
Application

适用于水塔、油箱、立交桥下、下穿隧道等液位的监测
Suitable for monitoring the liquid level of water towers, oil tanks, under overpasses, underpass tunnels, etc.

防爆型无线压力/液位传感器

Ex-Proof Wireless Pressure / Level Monitor

CS-iGPM-01



名称 Parameters	技术参数 Specifications
传输方式 Communication Mode	NB-IoT, LoRaWAN
供电方式 Power Supply	3.6VDC Lithium Battery
电池寿命 Battery Life	> 5 Years
压力传感器量程 Pressure Sensor Range	0 ~ 1.0MPa
液位传感器量程 Level Sensor Range	0 ~ 5m$H_2$0
介质温度 Medium Temperature	±0.5%F.S.
防护等级 Ingress Protection	IP65

注：压力量程、液位量程可定制
Note: Pressure ranges and level ranges can be customized

- ☑ **符合防爆设计要求**
  Compliant with explosion proof requirement
- ☑ **内置54AH超大容量锂电池**
  Built-in 54AH super capacity lithium battery
- ☑ **支持上下限报警阈值设置**
  Upper and lower limit alarm threshold configurable
- ☑ **支持采样和发送时间间隔设置**
  Sampling and sending intervals configurable
- ☑ **传感器和发送器分体设计，传感器选择灵活多样**
  Split design of sensors and transmitters, various options for sensors

应用领域 Application

适用于有防爆要求压力、液位的监测
Suitable for pressure or level monitor with explosion proof requirement

智能温振压力复合传感器

Intelligent Temperature & Vibration Pressure Composite Sensor

CS-iWPVT-01



名称 Parameters	技术参数 Specifications
传输方式 Communication Mode	Bluetooth 5.0
供电方式 Power Supply	3.6VDC Lithium Battery
电池寿命 Battery Life	≥3 Years
压力量程 Pressure Range	0~68bar
温度量程 Temperature Range	(-20℃ ~ 125℃)±3℃
加速度检测范围 Acceleration Range	±2/±4/±8/±16g
振动频率检测范围 Vibration Frequency Range	Bandwidths 1Hz-1.5KHz
防护等级 Ingress Protection	IP67

注：压力量程可定制
Note: Pressure ranges can be customized

- ☑ **集温度、振动、压力采集为一体**
  Integration of temperature, vibration and pressure acquisition
- ☑ **定时采样**
  Time-based Sampling
- ☑ **支持上下限报警阈值设置**
  Upper and lower limit alarm threshold configurable
- ☑ **配套系统平台管理**
  Supporting system platform management
- ☑ **配套小程序查看数据**
  Companion applet to view data

应用领域 Application

适用于设备故障的预测性健康管理，以降低设备故障造成的经济损失
Applicable to predictive health management of equipment failures to reduce economic losses caused by equipment failures

无线压力传感器
Wireless Pressure Monitor

CS-iPT608C

名称 Parameters	技术参数 Specifications
传输方式 Communication Mode	ZigBee
供电方式 Power Supply	3.6VDC Lithium Battery
电池寿命 Battery Life	> 6 months
压力量程 Pressure Range	0 ~ 40MPa
压力精度 Pressure Accuracy	±0.5%F.S.
防护等级 Ingress Protection	IP65

注：压力量程可选择
Note: Pressure ranges are optional



- ☑ **高精度、高质量、安装方便、使用简单**
  High accuracy, high quality, easy installing and operating
- ☑ **采样间隔，定时上报周期支持按键和远程命令修改**
  Sampling interval and regular reporting period are configurable by button or remote command

应用领域 Application
适用于输油、输气、供暖等输送管道的压力监测
Suitable for oil, gas, heating etc. pipeline pressure monitoring

无线液位温度传感器
Wireless Level & Temperature Monitor

CS-iLLS-02

名称 Parameters	技术参数 Specifications
传输方式 Communication Mode	GSM/4G
供电方式 Power Supply	3.6VDC Lithium Battery
	10~30VDC External Power
电池寿命 Battery Life	>120 Days
液位量程 Level Range	0~200m$H_2$0
液位精度 Level Accuracy	±0.5%F.S.
温度量程 Temperature Range	-25℃ ~ 85℃
温度精度 Temperature Accuracy	±1.0℃
防护等级 Ingress Protection	IP65

注：液位量程可选择
Note: Level ranges are optional



- ☑ **支持4G通信、GPS定位、LCD显示**
  4G communication, GPS positioning, LCD display
- ☑ **选用高性能高增益的天线**
  High performance and gain antenna
- ☑ **采用投入式液位测量技术**
  Submersible level measurement
- ☑ **支持采集现场温度**
  Available for site temperature collecting

应用领域 Application
适用于测量液体温度值和液位值
Suitable for measuring liquid temperature and liquid level height

室外消防栓无线压力传感器

Wireless Pressure Monitor for Outdoor Hydrant



CS-iTPFH-01

名称 Parameters	技术参数 Specifications
传输方式 Communication Mode	NB-IoT, LoRaWAN
供电方式 Power Supply	3.6VDC Lithium Battery
电池寿命 Battery Life	≥5 Years
压力量程 Pressure Range	0 ~ 1.6MPa
压力精度 Pressure Accuracy	±1.0%F.S.
防护等级 Ingress Protection	IP66

注：压力量程可定制
Note: Pressure ranges can be customized

应用领域 Application

应用于精细化、智能化消防管理，提高消防队员现场灭火救灾的效率

Applicable in refinement and intelligent fire management to improve the efficiency of firefighters in fire fighting and disaster relief

- ☑ **定时检测消防栓水压**
  Regularly detect the water pressure of fire hydrant
- ☑ **消防栓管道内无水或水压不足时触发报警**
  Alarm is triggered when there is no water or insufficient water pressure in hydrant pipes
- ☑ **支持上下限报警阀值设置**
  Upper and lower limit alarm threshold configurable
- ☑ **配套平台支持报警高亮定位、报警短信同步发送，手机派单及故障排查反馈**
  Support platform supports alarm highlighting and positioning,sending alarm SMS, cell phone dispatching and fault investigation feedback

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。

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[Corporate Vision]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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