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中国·武汉
WUHAN · CHINA

压力传感器 PRESSURE SENSOR

PROFESSIONAL MANUFACTURER OF PRESSURE SENSOR
OFFER HIGH-QUALITY SENSOR TO THE WORLD

专业生产压力传感器 / 为世界提供高质量的传感器



<http://www.whcdkj.com>

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武汉驰电科技有限公司
WUHAN CHIDIAN TECHNOLOGY CO. LTD.



2009

公司成立于2009年

1,000,000

注册资本100万元

20,000

月产量达两万只

100+

系列产品有100余种型号

COMPANY PROFILE

公司简介

武汉驰电科技有限公司成立于2009年，注册资本100万元，位于湖北省武汉市武汉经济技术开发区。主要从事汽车压力传感器的研发、生产与销售。拥有一流的技术人才队伍，具有强大的技术研发能力和丰富的生产管理经验。采用国内最先进、最完备的成套设备，确保产品质量的可靠性。目前，压力传感器的月产量达数万只。

本公司生产的汽车用电子式压力传感器，是本公司自行研发的，不同于目前市面上所有同类产品的全新结构。一改其现有产品的诸多缺点与不足，使得产品的性能得到了大幅度提高，并获得了两项国家实用新型专利（专利号：201721626002.7和201721626071.8），该产品可广泛应用于汽车发动机润滑油（机油）压力，汽车制动系统压缩空气的压力和尾气处理尿素压力的检测，也可以用于发电机组，船舶动力，机车，农业机械，工程车辆，空调系统，以及石油化工医疗等行业。

武汉驰电科技有限公司生产的机械式机油压力传感器、气压传感器系列产品有百余种型号，产品适用于东风康明斯B/C、朝柴6102、锡柴6100/6108/6112、玉柴6110/6102/6108、上柴6114D、大柴6112、九吨双桥王、乘龙、一汽六平柴、运煤王、斯太尔等国内主要汽车发动机生产厂家的系列柴油发动机，以及重汽、轻卡、大客等多种车型。产品采用介质隔膜、压力感应、薄膜电阻和低压开关等组件，将压力信号转换为电信号，当压力过低时低压开关导通，与动磁式压力表配套使用，感应发动机润滑油系统中机油压力或刹车系统的气压变化。具有精度高，响应灵敏，寿命长等特点。

PRESSURE SENSOR



Wuhan Chidian Technology Co., Ltd., Ltd. was established in 2009 with registered capital of 1 million, is located in the beautiful Wuhan Eco-Tech Development Zone. Mainly engaged in the research & development, production and sale of pressure sensors for automobiles. We have first-class technical team, with strong R & D capability and rich experience in production management. Production line using the most advanced and complete sets of equipment to ensure product quality and reliability. At present, the monthly output of pressure sensors reaches tens of thousands. Electronic Auto Air/Oil Pressure Sensor is an innovative structure designed by our engineers, there is much improvement of its performance. In addition, we obtained Certificates of Utility Model Patent (Cert No.: 201721626002.7 and 201721626071.8). It's widely applied to automobile engine lubricating oil pressure, the braking system, generators, ship power, agricultural and construction machinery, air conditioning systems, and petrochemical medical industries.

We have more than hundred models of oil pressure sensor series and air pressure sensor series. Our products are suitable for many series of diesel engine, such as Cummins B / C, Chaoyang diesel engine 6102, Wuxi diesel engine 6100/6108/6112, Yuchai engine 6110/6102/6108, Shanghai diesel engine 6114D, DEUTZ (Dalian) engine 6112 and so on, as well as heavy truck, light trucks, large bus and other vehicles. The product uses dielectric diaphragm, pressure sensing, thick film resistor and low voltage switch to convert the pressure signal into electric signal. When the pressure is too low, the low voltage switch is turned on. It is used together with pressure gauge to monitor the pressure change the engine lubrication system and the braking system. It has the characteristics of high precision, responsiveness and long life.

ENTERPRISE STYLE

企业风采



QUALIFICATION HONOR

资质荣誉





QUALITY ASSURANCE

质量保证

武汉驰电科技有限公司自成立以来，一直把产品质量视为公司参与市场竞争的核心，正是因为这个定位和驰电全体员工强烈的产品质量意识，使得公司持续发展，越做越好。

产品质量的控制主要落实在原材料的选购和加工工艺的控制两方面。

- 一、在材料选购上我公司均选用优质材料生产加工而成。
- 厚膜电阻：全部采用高精度，高耐磨陶瓷电阻。
- 弹簧：精选进口弹簧钢。
- 报警板：采用窄缝越程槽的设计结构，仅驰电一家独有。
- 介质隔膜：全部采用具有耐褶皱、耐高低温，耐老化，耐腐蚀性等多种优良性能的橡胶和高强度织物及其他高分子材料制成。

二、产品调试检测设备是本公司自主研发的，具有唯一性和领先技术，使检测过程自动化，对检测结果智能化判断。

三、在检测工艺上，我公司在每件产品出厂前一共要进行三次检测。

- 第一阶段：对产品进行初调。其中包括两个方面：
- 对检测点的电阻值进行调试。
- 对零至满量程全过程进行触点接触可靠性进行检测，防止因电

路板上有灰尘、纤维、其他杂质或者电路板制造不良导致在两个检测点之间出现瞬间短路的情况，主要表现在仪表指针突然出现不正常跳动。

第二阶段：对半成品进行检测。其中包括四个方面：

- 对检测点的电阻值进行检测。
- 对零至满量程全过程进行触点接触可靠性进行全程检测。
- 对报警压力值进行调试和检测。
- 对零至报警压力点（值）触点接触可靠性进行全程检测。

第三阶段：对产成品进行检测。其中包括四个方面：

- 对检测点的电阻值进行检测。
- 对零至满量程全过程进行触点接触可靠性进行检测。
- 对报警压力值进行检测。
- 对零至报警压力点（值）触点接触可靠性进行全程检测。

公司自成立以来，产品的故障率在500PPM以下，这是我们的历史，更是我们的承诺。

您的满意，就是我们全体员工努力的动力！

Since its establishment, Wuhan Chidian Technology Co., Ltd. has always regarded product quality as the core competition of the company in market. It is precisely because of product positioning and the strong product quality awareness of all employees that the company continues to develop and is getting better and better.

In the auto parts industry, there are two key factors of product quality control, one is raw materials of the components, and the other is the process control of the production. First, in the purchasing of raw materials, high quality is the only choice for our production.

- Thick Film Resistors: All high-precision, high wear-resistant ceramic resistance.
- Spring: Imported spring steel.
- The alarm board developed by our chief engineer that is exclusively owned by our company.

• Media separator: all fold resistant, high temperature resistance, anti-aging, made of corrosion and other excellent properties of rubber and high-strength fabric and other polymer materials.

Second, the product debugging and testing equipment is independently researched and developed by the company. It has uniqueness and leading technology to automate the testing process and intelligently judge the testing results.

Third, in the quality control process, every product will be tested three times before delivery.

Stage I: preliminary adjustment of the product. Which includes two aspects:

- To debug the resistance value of the detection points
- To test reliability of detection point for the entire process from zero to the full scale pressure. Prevents the occurrence of momentary short-circuit between two detection points due to dust, fibers, other impurities on the circuit board or poor manufacturing of the circuit board, mainly due to the sudden abnormal occurrence of the meter pointer.

Stage II Semi-final product testing include 4 aspects:

- To test the resistance value of the detection points
- To test reliability of detection point for the entire process from zero to full scale pressure To debug and test the pressure value of the alarm
- To test reliability of detection for the entire process from zero to alarm value.

Stage III Final product testing include four aspects:

- To test the resistance value of the detection points
- To test reliability of detection point for the entire process from zero to full scale pressure
- To test pressure value of alarm
- To test reliability of detection for the entire process from zero to alarm value.

Since the establishment of company, the product unqualified rate is below 500PPM. This is our history and our commitment.

Yours satisfaction is the motivation of all of us!

MECHANICAL OIL PRESSURE SENSOR

机械式压力传感器

产品描述 / PRODUCT DESCRIPTION

广泛应用于汽车、船体动力管路、水处理工程、工业过程检测与控制、液压气动控制工程等多个领域产品具有良好的抗振性能，使用寿命长，安装方便，质量稳定，性能可靠，工作温度范围宽。

Widely used in automobiles, hull power pipeline, water treatment engineering, industrial process testing and control, hydraulic and pneumatic control engineering and other fields products have good anti-vibration performance, long service life, easy installation, stable quality, reliable performance, wide range of operating temperature.

技术指标 / TECHNICAL DATA

工作电压 Operating Voltage	6~24VDC
报警导通功率 Conducting Power	5W
工作温度 Operating Temperature	-40~125℃
量程范围 Measuring Range	0~0.5MPa、0~1.0MPa
报警 Alarm	0.05MPa~0.55MPa
输出信号 Output Signal	10~184Ω、30~840Ω、240~30Ω
螺纹接口 Thread Fitting	NPT(Z)系列, M系列, NPTF系列, R(PT)系列, G(BSP)系列
防护等级 Protection Rank	IP65



OIL PRESSURE SENSOR

机油压力传感器

产品型号 Model	CDYG3-02010201	
测量范围 Measuring Range	0~1.0MPa	
输出阻值 Output	10~184Ω	
报警压力 Alarm	无/Nil	
安装尺寸 Thread Fitting	NPT1/8	
输出接口 Output Connection	4.8*0.8	

产品型号 Model	CDYG3-02080200	
测量范围 Measuring Range	0~1.0MPa	
输出阻值 Output	10~184Ω	
报警压力 Alarm	0.08±0.02MPa	
安装尺寸 Thread Fitting	M18*1.5	
输出接口 Output Connection	6.3*0.8	

产品型号 Model	CDYG3-21081401	
测量范围 Measuring Range	0~1.0MPa	
输出阻值 Output	10~184Ω	
报警压力 Alarm	0.06±0.02MPa	
安装尺寸 Thread Fitting	M18*1.5	
输出接口 Output Connection	2-M4	

产品型号 Model	CDYG3-02011400	
测量范围 Measuring Range	0~1.0MPa	
输出阻值 Output	10~184Ω	
报警压力 Alarm	0.08±0.02MPa	
安装尺寸 Thread Fitting	NPT1/8	
输出接口 Output Connection	2-M4	

产品型号 Model	CDYG3-22010400	
测量范围 Measuring Range	0~1.0MPa	
输出阻值 Output	10~184Ω	
报警压力 Alarm	0.2±0.02MPa	
安装尺寸 Thread Fitting	NPT1/8	
输出接口 Output Connection	4.8/6.3*0.8	

产品型号 Model	CDYG3-02020500	
测量范围 Measuring Range	0~1.0MPa	
输出阻值 Output	10~184Ω	
报警压力 Alarm	0.08±0.02MPa	
安装尺寸 Thread Fitting	NPT1/4	
输出接口 Output Connection	4.8/6.3*0.8	

产品型号 Model	CDYG3-03080401	
测量范围 Measuring Range	0~1.0MPa	
输出阻值 Output	10~184Ω	
报警压力 Alarm	0.10±0.02MPa	
安装尺寸 Thread Fitting	M18*1.5	
输出接口 Output Connection	4.8/6.3*0.8	

产品型号 Model	CDYG3-01010400	
测量范围 Measuring Range	0~1.0MPa	
输出阻值 Output	9~184Ω	
报警压力 Alarm	0.08±0.02MPa	
安装尺寸 Thread Fitting	NPT1/8	
输出接口 Output Connection	4.8/6.3*0.8	

OIL PRESSURE SENSOR

机油压力传感器

产品型号 Model	CDYG3-15010301	
测量范围 Measuring Range	0~0.5MPa	
输出阻值 Output	10~184Ω	
报警压力 Alarm	0.08±0.02MPa	
安装尺寸 Thread Fitting	NPT1/8	
输出接口 Output Connection	2~M4	

产品型号 Model	CDYG3-01120300	
测量范围 Measuring Range	0~1.0MPa	
输出阻值 Output	9~184Ω	
报警压力 Alarm	0.08±0.02MPa	
安装尺寸 Thread Fitting	NPT1/8	
输出接口 Output Connection	2~M4	

产品型号 Model	CDYG3-02010101	
测量范围 Measuring Range	0~1.0MPa	
输出阻值 Output	10~184Ω	
报警压力 Alarm	无/Nil	
安装尺寸 Thread Fitting	NPT1/8	
输出接口 Output Connection	M4	

产品型号 Model	CDYG3-03010620	
测量范围 Measuring Range	0~1.0MPa	
输出阻值 Output	10~184Ω	
报警压力 Alarm	0.1±0.02MPa	
安装尺寸 Thread Fitting	NPT1/8	
输出接口 Output Connection	3~M4	

产品型号 Model	CDYG3-07010201	
测量范围 Measuring Range	0~1.0MPa	
输出阻值 Output	60~840Ω	
报警压力 Alarm	无/Nil	
安装尺寸 Thread Fitting	NPT1/8	
输出接口 Output Connection	4.8*0.8	

产品型号 Model	CDYG3-02010300	
测量范围 Measuring Range	0~1.0MPa	
输出阻值 Output	10~184Ω	
报警压力 Alarm	0.08±0.02MPa	
安装尺寸 Thread Fitting	NPT 1/8	
输出接口 Output Connection	2~M4	

产品型号 Model	CDQG3-19011201	
测量范围 Measuring Range	0~120Psi	
输出阻值 Output	0~30Ω	
报警压力 Alarm	无/Nil	
安装尺寸 Thread Fitting	NPT1/8	
输出接口 Output Connection	M4	

产品型号 Model	CDYG3-01020300	
测量范围 Measuring Range	0~1.0MPa	
输出阻值 Output	10~184Ω	
报警压力 Alarm	0.08±0.015MPa	
安装尺寸 Thread Fitting	NPT1/4	
输出接口 Output Connection	2~M4	

AIR PRESSURE SENSOR

气压压力传感器

产品型号 Model	CDQG3-05070400	
测量范围 Measuring Range	0~1.0MPa	
输出阻值 Output	9~184Ω	
报警压力 Alarm	0.55±0.025MPa	
安装尺寸 Thread Fitting	M16*1.5	
输出接口 Output Connection	4.8/6.3*0.8	

产品型号 Model	CDQG3-23020300	
测量范围 Measuring Range	0~1.0MPa	
输出阻值 Output	9~184Ω	
报警压力 Alarm	0.55±0.04MPa	
安装尺寸 Thread Fitting	NPT1/4	
输出接口 Output Connection	2~M4	

产品型号 Model	CDQG3-24020301	
测量范围 Measuring Range	0~1.0MPa	
输出阻值 Output	10~184Ω	
报警压力 Alarm	0.35±0.02MPa	
安装尺寸 Thread Fitting	NPT1/4	
输出接口 Output Connection	2~M4	

产品型号 Model	CDQG3-05130621	
测量范围 Measuring Range	0~1.0MPa	
输出阻值 Output	9~184Ω	
报警压力 Alarm	0.55±0.025MPa	
安装尺寸 Thread Fitting	M22*1.5	
输出接口 Output Connection	3~M4	

产品型号 Model	CDQG3-25010301	
测量范围 Measuring Range	0~1.0MPa	
输出阻值 Output	10~184Ω	
报警压力 Alarm	0.5±0.025MPa	
安装尺寸 Thread Fitting	NPT1/8	
输出接口 Output Connection	2~M4	

产品型号 Model	CDQG3-09070920	
测量范围 Measuring Range	0~1.0MPa	
输出阻值 Output	10~184Ω	
报警压力 Alarm	0.47±0.02MPa	
安装尺寸 Thread Fitting	M16*1.5	
输出接口 Output Connection	1-仪表, 2-报警, 3-地 1-Gauge, 2-Alarm, 3-Ground	

产品型号 Model	CDQG3-09010401	
测量范围 Measuring Range	0~1.0MPa	
输出阻值 Output	10~184Ω	
报警压力 Alarm	0.45±0.02MPa	
安装尺寸 Thread Fitting	NPT1/8	
输出接口 Output Connection	2~M4	

产品型号 Model	CDQG3-23051020	
测量范围 Measuring Range	0~1.0MPa	
输出阻值 Output	9~184Ω	
报警压力 Alarm	0.55±0.04MPa	
安装尺寸 Thread Fitting	M12*1.5	
输出接口 Output Connection	1-仪表, 2-报警, 3-地 1-Gauge, 2-Alarm, 3-Ground	

ELECTRONIC PRESSURE SENSOR

电子式压力传感器

产品描述 / PRODUCT DESCRIPTION

本公司生产的汽车用电子式压力传感器，是本公司技术人员历时数年研发而成的，不同于目前市面上所有同类产品的全新结构。一改其现有产品的诸多缺点与不足，使产品的性能得到了大幅度的提高，并获得了两项国家实用新型专利（专利号：201721626002.7和201721626071.8）

The electronic pressure sensor for automobiles has been developed by our technicians for several years, which is an innovative structure, there is great improvement of its performance. In addition, we obtained certificates of Utility Model Patent. (cert No.201721626002.7 and 201721626071.8).

技术特点 / FEATURE

- 采用了硅芯片作为压力感应元件，灵敏度高，线性好，抗干扰能力强
- 采用硅油密封防护结构，将硅芯片与介质隔离开，避免了压力介质对硅芯片的腐蚀性或污染，从而大幅提高了产品的使用寿命
- 在外壳与端盖连接处，采用了铆接卡扣结构，并在外壳收口处涂以柔性密封胶，保证了产品经长期的高低温变化后，连接处不会出现松动，密封不良现象，从而提高了产品的可靠性。
- 产品采用自动化流水作业，并进行高低温补偿校验，使产品的精度得到了可靠的保障。

适用范围 / APPLICATION

该产品可广泛应用于汽车发动机润滑油（机油）压力，汽车制动系统压缩空气的压力和尾气处理尿素压力检测。也可应用于发电机组，船舶动力，机车，农用机械，工程车辆，空调系统，以及石油化工医疗等行业。

技术指标 / TECHNICAL DATA

量程范围 Measuring Range	0~40kPa, 150kPa, 500kPa, 1000kPa, 4000kPa
电源电压 Operating Voltage	5VDC, 6.5~30VDC
输出信号 Output	0.5~4.5VDC
工作温度 Operating Temperature	-40~125°C
精度 Accuracy	±0.5%, ±1%, ±3%
使用寿命 Service Life	不低于300万次压力循环 > 3 million cycles
安装尺寸 Thread Fitting	NPT(Z)系列, M系列, NPTF系列, R(PT)系列, G(BSP)系列



- Using silicon chip as pressure sensing element, high sensitivity, good linearity and strong anti-interference ability.
- The silicone oil encapsulation protection structure is used to isolate the silicon chip from the medium, which avoids the corrosion or contamination of the silicon chip by the pressure medium, thereby greatly improving the service life of the product.
- At the joint between the outer casing and the end cap, a riveted snap-fit structure is used, and a flexible sealant is applied to the outer casing. After long-term high and low temperature changes, the product will ensure that the joint will not be loosened and the sealing will be steady, which will improve the reliability of the product.
- The product adopts automatic flow operation, high and low temperature compensation, which ensures the reliability of the product is guaranteed.

The product can be widely used in automotive engine oil pressure, automotive brake system compressed air pressure and exhaust gas treatment urea pressure detection. It can also be applied to generator sets, ship power, locomotives, agricultural machinery, engineering vehicles, air conditioning systems, and petrochemical medical industries.

LOW PRESSURE ALARM SENSOR

低压报警器

产品描述 / PRODUCT DESCRIPTION

当压力降低到一定值时，压力开关导通，向报警系统提供报警信号。

When pressure drops to a certain value, the pressure switch is turned on to provide an alarm signal to the alarm system.

技术特点 / FEATURE

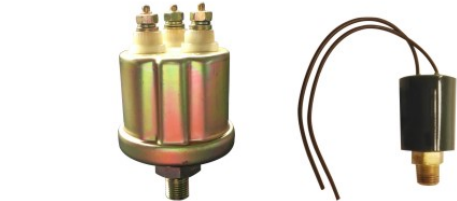
- 采用双报警结构，实现两个压力点报警功能；
- 取压口采用金属过滤器，防止干粉等高压介质堵塞；
- 耐温防爆；。

技术指标 / TECHNICAL DATA

工作电压 Operating Voltage	6~24VDC
报警导通功率 Conducting Power	5W
量程范围 Measuring Range	0~2.0MPa
报警 Alarm 1	1.0MPa
报警 Alarm 2	0.4MPa
安装尺寸 Thread Fitting	NPT(Z)系列, M系列, NPTF系列, R(PT)系列, G(BSP)系列
防护等级 Protection Rank	IP67

适用范围 / APPLICATION

主要应用于消防系统压力巡检装置（智能巡检），监控灭火装置的内部压力，监控灭火装置压力泄露故障。



- Dual alarm structure for two pressure point alarm functions
- Metal filter is used at the pressure port to prevent from clogging by dry powder, high pressure medium etc
- Temperature and explosion proof

It is mainly used in the fire protection system pressure inspection device (smart inspection), monitors the internal pressure of the fire extinguishing device, and monitors the pressure leakage failure of the fire extinguishing device.



FUEL LEVEL SENSOR

油量传感器

技术指标 / TECHNICAL DATA

- 主要材料：不锈钢304
- 安装：法兰联接：5~M5
- 长度：100~2000mm
- 输出信号：0~190ohm、240~33ohm
- 额定电流报警开关：500毫安
- 工作温度：-40°C~+85°C
- 分辨率范围：10~40mm
- 线材：PVC材质（PA波纹管盖可选）
- 保护范围：IP67
- 各项指标可根据客户的要求进行定制。
- Material: Stainless steel 304
- Assembly: Flange connection 5~M5
- Length: 100~2000mm
- Output Signal: 0~190ohm、240~33ohm
- Rated Current for Alarm Switch: 500mA
- Operating Temperature: -40°C~+85°C
- Resolution Range: 10~40mm
- Wire Material: PCV
- Protection Rank: IP67
- Customized technical data according to client's requirements

适用范围 / APPLICATION

本产品利用磁场来控制开关通断，从而实现不同液位时不同阻值的输出，以及液位过低时报警开关导通。该产品可靠性高，使用寿命长。广泛应用于各种车辆、船舶、发电机组，以及石油、化工行业的储油液位检测。

This product uses electromagnetic to control the on/off of the switch to achieve different resistance values at different levels, and the alarm switch is turned on when the liquid level is too low. The product is highly reliable and has a long service life. Widely used in a variety of vehicles, ships, generator sets, as well as oil and chemical industry oil storage level detection.



TEMPERATURE SENSOR

温度传感器

技术指标 / TECHNICAL DATA

- 主要材质：黄铜
- 主要类别：油温传感器、水温传感器
- 测试范围：0~150°C
- 额定电压：6V~24V
- 反应时间：通电后3分钟
- 温度报警点：95°C，120°C，可根据客户需求定制
- 温度报警点公差：±3°C
- 防护等级：IP67
- Material: Brass
- Type: Oil Temperature Sensor, Water Temperature Sensor
- Temperature Range: 0~150°C
- Rated Voltage: 6V~24V
- Response Time: Minimum 3 minutes after power supply electrified.
- Temperature Alarm: 95°C, 120°C or Customized
- The temperature alarm tolerance: ±3°C
- Protection Rank: IP67

适用范围 / APPLICATION

广泛应用于汽车、船舶、发电机组的发动机水箱温度检测，具有温度探测及温度报警功能，宽泛的产品规格、功能供选择，也可根据客户的需求定制产品。

It is widely used in engine water tank temperature detection of automobiles, ships and generator sets. It has temperature detection and temperature alarm function, wide product specifications and functions to choose from. Customized products according to customers' needs.



进气温度压力传感器 AIR INTAKE TEMPERATURE AND PRESSURE SENSOR

- | | |
|--------------------|--|
| 供电电压：5~36V（有反接保护） | Power supply voltage: 5~36V (Reverse connect protection) |
| 压力范围：0~1MPa（可定制） | Pressure range: 0~1MPa (customizable) |
| 压力形式：表压，绝压 | Pressure form: gauge pressure, absolute pressure |
| 输出电压：0.3~4.7V（可定制） | Output voltage: 0.3~4.7v (customizable) |
| 工作温度：-40~125°C | Working temperature: -40~125 °C |