



SENSING TOMORROW  
智感未来

上海立格仪表有限公司  
SHANGHAI LEEG INSTRUMENTS CO.,LTD.

Hapiot 单晶硅电子压力开关  
Hapiot Monosilicon electronic pressure switch



物联网/工业4.0  
IOT/Industry 4.0

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## PS131单晶硅电子压力开关 PS131 monosilicon electronic pressure switch



PS131电子压力开关秉承了立格仪表全面满足最恶劣使用场合的一贯设计理念，采用单晶硅传感器技术和一体成型外壳工艺，是一款超高性能的电子压力开关。PS131的5位点阵式OLED显示模式，可以显示丰富的菜单内容并达到了最佳的视觉效果；3按键参数设置，实现了良好的人机操作界面和丰富的功能调试；独立透气腔结构，对传感器导气端与电子腔室进行有效隔离，避免电子腔室受到湿度的影响。PS131可以根据运用工况，选配高过载、防冷凝、高精度等高要求功能，从而最大程度地满足各种工业场合的使用要求。

PS131 electronic pressure switch fully upholds the design concept that to meet the worst application occasions, adopts monosilicon sensor technology and integrated housing craft, with excellent performance.

5 dot-matrix OLED display mode shows rich menu contents and achieves the best visual effects. 3 button parameters setting to realize a good man-machine operation interface and rich functional adjustment. Independent air cavity structure effectively insulates gas-guiding side and electronic cavity so as to avoid effects of humidity. To maximum the usage of different industrial applications, high overload, anti-condensation, high precision and other demanding functions are optional accordingly.

## 整机（简约灵动，操控自如）

高性能PS131电子压力开关，精益求精彰显细节，使用操作简洁易用。



## Overall ( Simple structure, easy to operate )

High-performance PS131 electronic pressure switch.

Focus on details, keep improving.

Easy to operate.

## 单晶硅压力传感器

独创专利的高性能单晶硅压力传感器,高过载、高精度,独立透气腔体设计，避免电子腔室受到湿度的影响。



## Monosilicon pressure sensor

Originally patented high-performance monosilicon pressure sensor.

High overload, high accuracy.

Independent air cavity design for humidity proof of electronic cavity.

## 变送模块

5位0.96” OLED显示，丰富的提示信息显示及人性化操作界面。  
菜单设置180° 翻转显示功能，便于水平安装时观察。  
支持两路PNP或者NPN输出、晶体管输出状态手动调试功能。  
三重数据防护措施确保产品数据安全。



## Transmitting module

5 bit 0.96” highlighted OLED display, rich prompt messages of display and humanized operation interface.  
180° rotatable display function, easy to observe with horizontal installation.  
Support 2 PNP or 2 NPN output, transistor output manually adjustment function.  
Triple data protection to ensure product data security.

## 外壳

一体成型结构，达到IP67防护等级，350° 自由旋转，不同角度灵活安装。



## Housing

Integrated structure to ensure IP67 protection class,  
350° rotation freely, suitable for installation in various angels

## 广泛适应性

双腔高过载保护结构可选、  
双隔膜防冷凝结构可选、  
多种过程连接方式可选。



## Widely application

Optional double-cavity high-overload protection structure,  
Optional double-diaphragm anti-condensation structure,  
Optional various process connections



Measuring range: Gauge, 1kPa ~ 40MPa  
Absolute pressure, 10kPa ~ 10MPa  
量程范围：表压，1kPa ~ 40MPa  
绝压，10kPa ~ 10MPa

Output signal: 4 ~ 20mA, Modbus-RTU/RS485, 晶体管  
输出信号

Accuracy: 0.1%F.S., 0.5%F.S.  
精度等级

## SMP131紧凑型压力变送器 SMP131 compact pressure transmitter



SMP131紧凑型压力变送器融合了当今电子压力测量领域所有可利用的最新技术，经过10多年的长期研发而成的最高性价比产品。传感器采用了全自动线性和温度补偿技术，确保大批量制造的效率和品质；全焊接工艺以及独立透气腔体结构，确保产品的长期可靠性；信号变送器模块采用独创标定技术，无需任何工具即轻松实现参数设置。SMP131紧凑型压力变送器拥有不同于其他普通同价产品的独特工艺优点，性能等同于大多数的高端产品，是最高性价比产品的首选。

SMP131 compact pressure transmitter combined with the latest available technologies of the modern electronic pressure measurement fields. It's the most cost-effective products after 10 year's research and development.

The sensor adopts automatic linear and temperature compensation technology to assure the efficiency and quality of mass production. Fully-sealed and isolated air cavity design to assure the long term reliability. Signal transmitting module adopts original calibration technology to realize parameters setting easily without any tools. SMP131 compact pressure transmitter has unique technological advantage which is different from other ordinary products with the same price and its' capabilities are equivalent to the most of the high-end products, which is the first selection of the most cost-effective products.



## SMP131扩散硅压力变送器

SMP131 piezoresistive silicon pressure transmitter

Measuring range: Gauge, 5kPa~100MPa

Absolute pressure, 20kPa~3.5MPa

量程范围: 表压, 5kPa~100MPa

绝压, 20kPa~3.5MPa

Output signal: 4~20mA

输出信号

Accuracy: 0.2%F.S., 0.5%F.S.

精度等级

Process connection: GB, European standard, American  
standard thread

过程连接: 国标, 欧标, 美标螺纹

Application: Pneumatic hydraulic automation equipments and  
production line

用途描述: 气动液压自动化设备和生产线

## SMP131扩散硅压力变送器

SMP131 piezoresistive silicon pressure transmitter

Measuring range: Gauge, 5kPa~100MPa

Absolute pressure, 20kPa~3.5MPa

量程范围: 表压, 5kPa~100MPa

绝压, 20kPa~3.5MPa

Output signal: 4~20mA

输出信号

Accuracy: 0.2%F.S., 0.5%F.S.

精度等级

Process connection: GB, European standard, American  
standard thread

过程连接: 国标, 欧标, 美标螺纹

Application: Pneumatic hydraulic automation equipments and  
production line

用途描述: 气动液压自动化设备和生产线





## SMP131蓝宝石压力变送器

SMP131 sapphire pressure transmitter

Measuring range: Gauge, 2kPa~100MPa

Absolute pressure, 20kPa~60MPa

量程范围: 表压, 2kPa~100MPa

绝压, 20kPa~60MPa

Output signal: 4~20mA

输出信号

Accuracy: 0.1%F.S., 0.5%F.S.

精度等级

Process connection: National standard thread (国标螺纹)

过程连接

Application: Pneumatic hydraulic automation equipments and production line

用途描述: 气动液压自动化设备和生产线

## SMP131金属应变压力变送器

SMP131 strain gauge pressure transmitter

Measuring range: Gauge, 250kPa~100MPa

量程范围: 表压, 250kPa~100MPa

Output signal: 4~20mA

输出信号

Accuracy: 0.5%F.S.

精度等级

Process connection: GB, European standard, American standard thread

过程连接: 国标, 欧标, 美标螺纹

Application: Pneumatic hydraulic automation equipments and production line

用途描述: 气动液压自动化设备和生产线





## SMP131陶瓷电容压力变送器

SMP131 capacitive ceramic pressure transmitter

Measuring range: Gauge, 5kPa ~ 7MPa

Absolute pressure, 5kPa ~ 100kPa

量程范围: 表压, 5kPa ~ 7MPa

绝压, 5kPa ~ 100kPa

Output signal: 4 ~ 20mA

输出信号

Accuracy: 0.2%F.S., 0.5%F.S.

精度等级

Process connection: GB, European standard, American  
standard thread

过程连接: 国标, 欧标, 美标螺纹

Application: Pneumatic hydraulic automation equipments and  
production line

用途描述: 气动液压自动化设备和生产线

## SMP131陶瓷压阻压力变送器

SMP131 piezoresistive ceramic pressure transmitter

Measuring range: Gauge, 50kPa ~ 60MPa

Absolute pressure, 50kPa ~ 60MPa

量程范围: 表压, 50kPa ~ 60MPa

绝压, 50kPa ~ 60MPa

Output signal: 4 ~ 20mA

输出信号

Accuracy: 0.5%F.S.

精度等级

Process connection: GB, European standard, American  
standard thread

过程连接: 国标, 欧标, 美标螺纹

Application: Pneumatic hydraulic automation equipments and  
production line

用途描述: 气动液压自动化设备和生产线



## SMP131陶瓷电容压力变送器

SMP131 capacitive ceramic pressure transmitter

Measuring range: Gauge, 5kPa ~ 7MPa

Absolute pressure, 5kPa ~ 100kPa

量程范围：表压，5kPa ~ 7MPa

绝压，5kPa ~ 100kPa

Output signal: 4 ~ 20mA

输出信号

Accuracy: 0.2%F.S., 0.5%F.S.

精度等级

Process connection: GB, European standard, American  
standard thread

过程连接：国标，欧标，美标螺纹

Application: Pneumatic hydraulic automation equipments and  
production line

用途描述：气动液压自动化设备和生产线





## LCD11现场显示表

LCD11 loop powered LCD display

Input signal: 4 ~ 20mA two wire  
输入信号: 4 ~ 20mA 二线制

Power supply: 4 ~ 20mA two wire loop power  
Maximum voltage drop: 8VDC  
供电电源: 4 ~ 20mA二线制回路供电工作, 压降最大8VDC

Site operation: 3 operational key, all parameters can be modified at site  
现场操作: 三按键, 全部参数可现场修改

Site display: Double row 5 bit/8 bit, 8 section/16 section with backlight LCD display  
现场显示: 双排5位/8位, 8段/16段带背光LCD显示

Display range: -19999 ~ 99999  
显示范围

Accuracy: 0.1%F.S., ±1 digit(位)  
精度等级

Switch quantity: Max 2 way PNP for option  
开关数量: 最多2路PNP可选

## LCD11现场显示表

LCD11 loop powered LCD display

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精度等级

Switch quantity: Max 2 way PNP for option  
开关数量: 最多2路PNP可选



## LMP633投入式液位变送器 LMP633 Submersible pressure transmitter



LMP633投入型液位变送器是为了应对最苛刻的液位测量工况而设计。传感器采用了最先进的微处理技术进行了全方位线性误差和温度误差补偿，确保测量结果达到最高准确度要求；投入探头采用了全灌封防冷凝技术，安全可靠的双密封设计，全焊接工艺以及坚固的不锈钢外壳，确保产品的长期可靠性以及永久气密性；信号变送模块采用了耐瞬变电压保护电路，确保即使在苛刻的浪涌电压环境中仍可运行自如；线缆密封采用了加强的锥堵密封工艺，确保即使在安装和长期使用中受到较大的机械负载时也具有长久的使用寿命。LMP633投入型液位变送器是一款满足所有高要求的液位测量应用的最佳选择。

LMP633 submersible pressure transmitter is designed for dealing with the most severe demanding level measurement conditions. The sensor adopts the most advanced micro-processor technology with comprehensive linear error compensation and temperature error compensation to assure the highest precision of measuring result. The probe adopts full potting condensation-preventing technology, safe and reliable dual-seal design and fully welding technology with solid stainless steel body to assure long term stability and permanent air tightness. Signal transmitting module adopts transient voltage resistance protective circuits to assure operation regularly even under the harsh surge voltage environment. The seal of the cable adopts intensive cone plug sealing design to assure the long working life even under large mechanical load conditions during the installation and long-term use. LMP633 Submersible pressure transmitter is the optimal choice to satisfy all of high demand level measuring applications.



## LMP633单晶硅投入型压力变送器

LMP633 piezoresistive silicon submersible pressure transmitter

Measuring range: Gauge, 10kPa~2MPa

Absolute pressure, 80kPa~1MPa

量程范围: 表压, 10kPa~2MPa

绝压, 80kPa~1MPa

Output signal: 4~20mA , 4~20mA +HART

输出信号

Accuracy: 0.1%F.S., 0.2%F.S.

精度等级

Application: Environmental protection; municipal works;  
level measurement of irrigation works

用途描述: 环保、市政、水利的液位测量

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输出信号

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精度等级

Application: Environmental protection; municipal works;  
level measurement of irrigation works

用途描述: 环保、市政、水利的液位测量





### LMP633陶瓷电容投入型压力变送器

LMP633 capacitive ceramic submersible pressure transmitter

Measuring range: Gauge, 10kPa ~ 2MPa  
量程范围: 表压, 10kPa ~ 2MPa

Output signal: 4~20mA, 4~20mA +HART  
输出信号

Accuracy: 0.2%F.S., 0.5%F.S.  
精度等级

Application: Environmental protection; municipal works;  
level measurement of irrigation works  
用途描述: 环保、市政、水利的液位测量

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输出信号

Accuracy: 0.2%F.S., 0.5%F.S.  
精度等级

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## LG200温度变送器 LG200 Integrated Temperature Transmitter



LG200温度变送器采用专用集成电路与表面封装技术的信号变送模块，并可选内置带背光和按键操作的LCD显示模块。一体化耐瞬变电压端子块，满足四级标准（差模电压：2000V，共模电压：4000V），适用于恶劣的浪涌电压场合。LG200温度变送器为任何温度测量工况提供了一个灵活、可靠的解决方案。

LG200 integrated temperature transmitter adopts ASIC & SMT signal transmitting module, optional built-in backlight and button operation LCD display module. The integrated transient voltage terminal satisfy 4 grade standard (difference-mode voltage 2000V, common-mode voltage 4000V), suitable for bad surge voltage occasions. LG200 integrated temperature transmitter provides a flexible and reliable solution for any temperature measurement applications.



**LG200一体化热电阻温度变送器**  
LG200 integrated RTD temperature transmitter

Measuring range: -50 ~ 400°C  
量程范围: -50 ~ 400°C

Output signal: 4 ~ 20mA  
输出信号

Accuracy: 0.5%F.S.  
精度等级

Process connection: GB, European standard, American  
standard thread  
过程连接: 国标, 欧标, 美标螺纹

**LG200一体化热电阻温度变送器**  
LG200 integrated RTD temperature transmitter

Measuring range: -50 ~ 400°C  
量程范围: -50 ~ 400°C

Output signal: 4 ~ 20mA  
输出信号

Accuracy: 0.5%F.S.  
精度等级

Process connection: GB, European standard, American  
standard thread  
过程连接: 国标, 欧标, 美标螺纹





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