

## Cerabar PMP51B压力变送器

智能变送器，带陶瓷膜片传感器，实现高精度液体和气体测量



详细信息和最新价格参见:

[www.endress.com.cn/PMP51B](http://www.endress.com.cn/PMP51B)

### 优势:

- 减小系统故障发生几率，零错误的SIL调试和引导式仪表功能安全测试
- 减少了现场事故，保护安装在难以接近的测量点中的设备
- 使用SmartBlue App无线远程控制生产区域内的设备，无需中断生产过程

### 产品规格参数

- **测量精度** Standard: up to 0.075 % Platinum up to 0.055 %
- **过程温度** Standard: -40°C...+125°C (-40°F...+257°F) Diaphragm seal: -40°C...+400°C (-40°F...+752°F)
- **压力测量范围** 400 mbar... 400 bar (6psi...6,000psi)
- **主要接液部件** 316L, AlloyC, Tantal, Monel, PTFE
- **过程膜片的材质** 316L, AlloyC, Tantal, Monel, PTFE

**应用领域:** PMP51B是新一代Cerabar变送器的成员之一。仪表拥有众多优势，比如支持便捷的现场操作或远程操作，以及按需维护，更加有效地预防计划外停机事件的发生。软件的使用同样十分简单。操作向导直观明了，引导用户逐步完成仪表设置、功能安全测试和验证测试，将操作错误的发生几率降至最低。使用移动设备和安全Bluetooth蓝牙连接，通过app可以远程控制变送器。

### 特征和规格

压力

测量原理

绝压和表压

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## 压力

### 特点

Pressure transmitter with metal membrane for accurate measurement in liquids or gases.

Available with diaphragm seals.

Intuitive and clear wizard for commissioning

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### 供电电压

Ex d, Ex e, non-Ex:  
10.5...35V DC

Ex i: 10.5...30V DC

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### 参考测量精度

Standard:

up to 0.075 %

Platinum:

up to 0.055 %

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### 长期稳定性

0.1% of URL/year

0.2% of URL/ 5 years

0.25% of URL/ 10 years

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**压力****过程温度**

Standard:

-40°C...+125°C

(-40°F...+257°F)

Diaphragm seal:

-40°C...+400°C

(-40°F...+752°F)

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**环境温度**

-40°C...+85°C

(-40°F...+185°F)

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**传感器**

400 mbar...400 bar

(6psi...6,000psi)

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**最小可标定量程**

20 mbar (0.3 psi)

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**抗真空压力**

50 mbar (0.725 psi)

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**最大量程比**

100:1

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**最大过压限定值**

2,800 bar (40,600 psi)

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**压力****过程连接**

Thread:

G1/2...G2, R1/2, MNPT3/4...MNPT2,

FNPT1/2

Flange:

DN25...DN80,

NPS 1"...3"

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**卫生型过程连接**

卫生型过程连接

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**过程膜片的材质**

316L, AlloyC,

Tantal, Monel,

PTFE

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**垫圈材质**

PTFE

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**填充液**

Silicone oil, Inert oil,

Vegetable oil,

High/ low temperature oil

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**外壳材质**

Aluminium

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**压力****通信**

4...20 mA,

4...20 mA HART

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**证书和认证**

ATEX, IEC Ex

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**安全认证**

安全认证

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**设计认证**

EN10204-3.1,

NACE MR0175,

NACE MR0103

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**卫生型认证**

卫生型认证

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**船级认证**

船级认证

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**饮用水认证**

NSF

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**特点**

Heartbeat Technology,

Bluetooth® Operation and maintenance SmartBlue App,

LED Module,

RFID TAG for easy identification,

Plug and play functionalities

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## 连续液位测量

### 测量原理

绝压和表压

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### 特点/应用

Pressure transmitter with metal membrane for accurate measurement in liquids or gases.

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Intuitive and clear wizard for commissioning

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### 特点

Heartbeat Technology,

Bluetooth® Operation and maintenance SmartBlue App,

LED Module,

RFID TAG for easy identification,

Plug and play functionalities

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### 电源/通信

Ex d, Ex e, non-Ex:

10.5...35V DC

Ex i: 10.5...30V DC

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### 测量精度

Standard:

up to 0.075 %

Platinum

up to 0.055 %

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**连续液位测量****长期稳定性**

0.1 % of URL/ year

0.2 % of URL/ 5 years

0.25 % of URL/ 10 years

**环境温度**

-40°C...+85°C

(-40°F...+185°F)

**过程温度**

Standard:

-40°C...+125°C

(-40°F...+257°F)

Diaphragm seal:

-40°C...+400°C

(-40°F...+752°F)

**过程压力 (绝压) /最大过压限定值**

700 bar (10,500 psi)

**压力测量范围**

400 mbar... 400 bar

(6psi...6,000psi)

**主要接液部件**

316L, AlloyC,

Tantal, Monel,

PTFE

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**连续液位测量****过程连接**

Thread:

G1/2...G2, R1/2, MNPT3/4...MNPT2,

FNPT1/2

Flange:

DN25...DN80,

NPS 1"...3"

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**最大测量距离**4000 m (13,123 ft) H<sub>2</sub>O

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**通信**

4...20 mA,

4...20 mA HART

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**证书和认证**

ATEX, IEC Ex

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**安全认证**

SIL

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**设计认证**

EN 10204-3.1

NACE MR0175,

NACE MR0103,

AD2000



## 连续液位测量

### 卫生型认证

3A、EHEDG  
CoC ASME-BPE

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### 船级认证

GL/ ABS/ LR/ BV/ DNV

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### 饮用水认证

NSF

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### 选项

现场显示

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### 应用限制

Measuring cell: Metal welded  
If pressurized, possibly use differential pressure measurement with two pressure transmitters (electronic dp). Observe ratio head pressure: hydrostatic pressure

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更多信息 [www.endress.com.cn/PMP51B](http://www.endress.com.cn/PMP51B)