

## Cerabar PMC51B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/PMC51B](http://www.endress.com.cn/PMC51B)

### 优势:

- 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。
- 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

### 产品规格参数

- **测量精度** Standard: up to 0.075 % Platinum: up to 0.055 %
- **过程温度** -40°C...+100°C (-40°F...+212°F)
- **压力测量范围** 100 mbar...40 bar (1.5 psi...600 psi)
- **主要接液部件** Ceraphire ceramic FKM, EPDM, HNBR, Perlast, Kalrez
- **过程膜片的材质** Ceramic

**应用领域:** PMC51B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。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 ceramic process membran for accurate measurement in liquid or gases.

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

0.10% of URL/ year

0.25% of URL/ 5 years

0.40% of URL/ 10 years

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### 过程温度

-40°C...+100°C

(-40°F...+212°F)

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### 环境温度

-40°C...+85°C

(-40°F...+185°F)

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### 传感器

100 mbar...40 bar

(1.5 psi...600 psi)

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### 最小可标定量程

5 mbar (0.075 psi)

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### 抗真空压力

up to 100°C (212°F)

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**压力****最大量程比**

100:1

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**最大过压限定值**

60 bar (900 psi)

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**过程连接**

Thread:

G1/2...G2, R1/2, MNPT1/2...MNPT2,

FNPT1/2

Flange:

DN25...DN80,

NPS 1"...4"

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**过程膜片的材质**

Ceramic

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**垫圈材质**

FKM, EPDM, HNBR, FFKM

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**填充液**

none, dry measuring cell

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**外壳材质**

Aluminium

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**通信**

4...20 mA,

4...20 mA HART

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**证书和认证**

ATEX, CSA, IECEx, JPN Ex, INMETRO, NEPSI, UK Ex

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**安全认证**

SIL

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## 压力

### 设计认证

EN10204-3.1  
NACE MR0175,  
NACE MR0103

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### 饮用水认证

NSF, KTW

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### 特点

Bluetooth® Operation and maintenance SmartBlue App,  
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

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### 电源/通信

Ex d, Ex e, non-Ex::  
10.5...35V DC  
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### 测量精度

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Platinum:  
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**连续液位测量****长期稳定性**

0.10 % of URL/ year

0.25 % of URL/ 5 years

0.40 % of URL/ 10 years

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**环境温度**

-40°C...+85°C

(-40°F...+185°F)

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**过程温度**

-40°C...+100°C

(-40°F...+212°F)

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**过程压力 (绝压) /最大过压限定值**

40 bar (600 psi)

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**压力测量范围**

100 mbar...40 bar

(1.5 psi...600 psi)

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**主要接液部件**

Ceraphire ceramic

FKM, EPDM, HNBR,

Perlast, Kalrez

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**过程连接**

Thread:

G1/2...G2, R1/2, MNPT1/2...MNPT2, FNPT1/2

Flange:

DN25...DN80,

NPS 1"...4"

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**最大测量距离**400 m (1312 ft) H<sub>2</sub>O

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**通信**

4...20 mA,

4...20 mA HART

## 连续液位测量

### 证书和认证

ATEX, IEC Ex, CSA C/US, NEPSI

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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

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### 饮用水认证

NSF, KTW

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### 应用限制

Measuring cell: ceramics

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/PMC51B](http://www.endress.com.cn/PMC51B)