

# 数字式pH/ORP组合电极Memosens CPS16E

## Memosens 2.0玻璃电极，适用于过程领域、水和污水行业中的标准应用场合



详细信息和最新价格参见:

[www.endress.com.cn/CPS16E](http://www.endress.com.cn/CPS16E)

### 优势:

- Memosens 2.0支持扩展储存单元，保存标定参数和过程参数，能够更好地进行趋势识别，为未来实施预维护和改进IIoT工业物联网服务提供完美的基础。
- 附加铂电极持续监测参比阻抗，是电极质量的可靠保障。
- 同时测量pH、ORP和rH值（在rH模式中），能够提供丰富过程信息，是严格过程控制的坚实基础。
- 坚固耐用，大面积环状PTFE隔膜，参比电极带离子捕捉阱，有效防止电极中毒。
- 满足严苛工况应用：过程玻璃耐受强碱性介质腐蚀，在压力不超过17 bar (246 psi)的工况下稳定测量。
- 更低使用成本：实验室标定和现场快速更换电极，实现最短生产中断时间。实验室再生电极，延长了传感器的使用寿命。
- 采用非接触式数字信号传输方式，测量结果始终可靠，保证高过程安全性。

### 产品规格参数

- **测量范围** ORP: -1 500 to 1 500 mV Application A ▪ pH: 1 to 12 Application B ▪ pH: 0 to 14
- **过程温度** Application A: -15 to 80 °C (5 to 176 °F) Application B: 0 to 135 °C (32 to 275 °F)
- **过程压力** 0.8 to 17 bar (11.6 to 246,5 psi) absolute

**应用领域:** Memosens CPS16E能够同时进行pH和ORP测量，适应于稳定工况应用。电极内置pH和ORP测量部件，能够提供丰富过程信息，是严格过程控制的坚实基础。Memosens CPS16E采用Memosens 2.0数字技术，支持扩展数据存储，服务预维护和IIoT工业物联网。pH/ORP电极不受潮湿环境的影响，允许实验室标定，简化例行操作，实现更高过程完整性。

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## 特征和规格

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pH

### 测量原理

玻璃电极

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### 应用

Long-term monitoring and limit control in processes with stable process conditions

- Chemical processes
  - Pulp and paper industry
  - Waste incinerators and gas scrubbers
  - Mining
  - Wastewater
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### 特点

Combination of pH and ORP electrode for standard applications in process technology and environmental engineering

Poison-resistant reference with ion trap

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### 测量范围

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Application B

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### 测量原理

Gel compact electrode with PTFE ring-junction and with ion trap

Pt-disc as additional ORP element

rH measurement and control of the reference impedance

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### 设计

All shaft lengths with temperature sensor

Advanced gel technology

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pH

**材质**

Sensor shaft: Glass to suit process  
pH membrane glass: Type A, B  
Metal lead: Ag/AgCl  
Open aperture: PTFE junction, sterilizable  
ORP measuring element: Platinum  
O-ring: FKM  
Process coupling: PPS fiber-glass reinforced  
Nameplate: Ceramic metal oxide

**外形尺寸**

Diameter: 12 mm (0.47 inch)  
Shaft lengths: 120, 225 and 360 mm  
(4.72, 8.86, 14.17 and 16.73 inch)

**过程温度**

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**过程压力**

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**温度传感器**

NTC 30k

**防爆认证**

With ATEX, IECEx, CSA C/US, NEPSI, Japan Ex and INMETRO approvals  
for use in  
hazardous areas Zone 0, Zone 1 and Zone 2

**连接**

Inductive, digital connection head with Memosens 2.0 technology

**防护等级**

IP68

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## ORP /氧化还原电位

### 测量原理

ORP电极

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