

数字式pH/ORP组合电极

Memosens CPS76E

Memosens 2.0组合电极，适用于化工工艺过程和有毒介质测量



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。
- 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。
- 可选带压参比系统，可靠测量易堵塞介质，比如分散液。
- 电极带专用离子捕捉阱，有效防止引线和参比系统的毒性扩散，确保长使用寿命。
- 允许电极倒装，安装灵活。
- 采用非接触式感应信号传输方式，具有高过程安全性。
- 尽可能缩短生产停机时间，延长了电极使用寿命，降低了运营成本。

详细信息和最新价格参见:

www.endress.com.cn/CPS76E

产品规格参数

- **测量范围** ORP: -1 500 to 1 500 mV Application B ■ pH: 0 to 14 Application H ■ pH: 0 to 12
- **过程温度** Application B and H: 0 to 140 °C (32 to 284 °F) Version TB: 0 to 140 °C (32 to 284 °F) Version TU, TP (pressurized reference): 0 to 140 °C (32 to 284 °F) (140 °C (284 °F) for sterilization only) maximum 100 °C (212 °F) in continuous operation due to increasing pressure drop at T > 100 °C (212 °F)
- **过程压力** Application B: 0.8 to 14 bar (11.6 to 203 psi) absolute Application H: 0.8 to 7 bar (11.6 to 101,5 psi) absolute

应用领域: Memosens CPS76E是严苛工况测量专家，能够同时进行pH和ORP测量。独一无二的抗污型参比系统，可靠测量重度污染介质和低电导率介质。CPS76E采用Memosens 2.0 数字技术，具有高过程完

整性，操作非常简单。防水防潮设计，允许实验室传感器标定，支持扩展数据存储，保存标定参数和过程参数。是实施预维护的完美基础。

特征和规格

pH

测量原理

玻璃电极

应用

Process technology and monitoring of processes with:

- Rapidly changing pH values
- High levels of electrode poisons, such as H₂S

特点

Digital pH/ORP electrode for chemical process with an ion trap for poison-resistant reference

测量范围

ORP: -1 500 to 1 500 mV

Application B

- pH: 0 to 14

Application H

- pH: 0 to 12

测量原理

Gel compact electrode with ceramic junction and ion trap for simultaneous measurement of pH, ORP and rH value (in rH mode)

设计

All shaft lengths with temperature sensor

Advanced gel technology

pH

材质

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

外形尺寸

Diameter: 12 mm (0.46 inch)
Shaft lengths: 120, 225, 360 and 425 mm
(4.68, 8.77, 14.04 and 16,57 inch)

过程温度

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0 to 140 °C (32 to 284 °F)
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Version TU, TP (pressurized reference):
0 to 140 °C (32 to 284 °F) (140 °C (284 °F) for sterilization only)
maximum 100 °C (212 °F) in continuous operation due to increasing
pressure drop at T > 100 °C (212 °F)

过程压力

Application B: 0.8 to 14 bar (11.6 to 203 psi) absolute
Application H: 0.8 to 7 bar (11.6 to 101,5 psi) absolute

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

pH

连接

Inductive, digital connection head with Memosens 2.0 technology

防护等级

IP68

ORP /氧化还原电位

测量原理

ORP电极

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