

# Combined pH/ORP sensor Memosens CPS76E

## Memosens 2.0 combined electrode for chemical processes and poisoning media



詳細情報と現在の価格は以下をご覧ください:

[www.jp.endress.com/CPS76E](http://www.jp.endress.com/CPS76E)

### 利点:

- Memosens 2.0 offers extended storage of calibration and process data, enabling better trend identification and providing a future-proof basis for predictive maintenance and enhanced IIoT services.
- Simultaneous measurement of pH, ORP and rH values (in rH mode) provides a better process overview and allows for a tighter process control.
- Its optional pressurized reference ensures reliable measurement in blocking media, such as dispersions.
- Unique ion trap prevents poisoning of the electrode's junction and reference ensuring a long sensor lifetime.
- Flexible installation thanks to optional upside-down mounting.
- Maximum process safety through non-contact, inductive signal transmission.
- Reduced operating costs thanks to minimized process downtime and extended sensor lifetime.

### 仕様一覧

- **測定範囲** ORP: -1 500 to 1 500 mV Application B ■ pH: 0 to 14 Application H ■ pH: 0 to 12
- **プロセス温度** 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)
- **プロセス圧力** 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

**アプリケーション:** Memosens CPS76E is the heavy-duty specialist for simultaneous pH and ORP measurement. Its unique, contamination-resistant reference guarantees stable measurement in polluted, poisoning media and in media with low conductivity. Thanks to Memosens 2.0 digital technology, CPS76E combines maximum process integrity with simple operation. It resists moisture, enables lab calibration and offers extended storage of calibration and process data providing the perfect basis for predictive maintenance.

## 機能と仕様

pH

### 測定原理

電位差測定

### アプリケーション

プロセス技術および以下のプロセス監視:

- 急速に変化する pH 値
- 電極への汚染性が高い液体（例：H<sub>2</sub>S）

### 特性

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

### 測定範囲

ORP: -1 500 to 1 500 mV

Application B

- pH: 0 to 14

Application H

- pH: 0 to 12

### 測定原理

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

### 構造

すべてのシャフト長で温度センサ付き  
高度な固体電解質（ゲル）技術

pH

**材質**

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

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**外形寸法**

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

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**プロセス温度**

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0 to 140 °C (32 to 284 °F)  
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**温度センサ**

NTC 30k

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**防爆規格適合証明書**

危険場所 Zone 0、Zone 1、Zone 2 で使用するための ATEX、IECEX、  
CSA C/US、  
NEPSI、国内防爆、INMETRO 認定取得

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pH

**接続**

Memosens 2.0 テクノロジーを搭載した電磁誘導伝送のデジタル接続ヘッド

**保護等級**

IP68

ORP

**測定原理**

ORPセンサ

**アプリケーション**

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