

# Proline Promag W 300 电磁流量计

水和污水测量专家，搭配操作简便的一体化型变送器



详细信息和最新价格参见:

[www.endress.com.cn/5W3B](http://www.endress.com.cn/5W3B)

## 优势:

- 高精度可靠测量，无需前后直管段，无压损
- 设计灵活 - 传感器配备焊接式或松套法兰过程连接
- 长期运行 - 耐用的全焊接传感器
- 可用性提升 - 传感器满足行业专属要求
- 完整查看过程信息和诊断信息 - 提供多种用户自定义输入/输出组合方式和现场总线
- 降低复杂性和多变性 - 允许用户自定义输入/输出功能
- 集成校验 - Heartbeat Technology 心跳技术

## 产品规格参数

- **最大测量误差** Volume flow (standard):  $\pm 0.5\%$  o.r.  $\pm 1$  mm/s (0.04 in/s) Volume flow (option):  $\pm 0.2\%$  o.r.  $\pm 2$  mm/s (0.08 in/s), Flat Spec
- **测量范围** 0.5 m<sup>3</sup>/h to 263000 m<sup>3</sup>/h (2.5gal/min to 1665 Mgal/d)
- **介质温度范围** Liner material hard rubber: 0 to +80 °C (+32 to +176 °F) Liner material polyurethane: -20 to +50 °C (-4 to +122 °F) Liner material PTFE: -20 to +90 °C (-4 to +194 °F)
- **最大过程压力** PN 40, Class 300, 20K
- **接液部件材质** Liner: Polyurethane; Hard rubber, PTFE Electrodes: 1.4435 (316L); Alloy C22, 2.4602 (UNS N06022); Tantalum

**应用领域:** Promag W 300高精度电磁流量计用于水和污水测量，能够在危险区和严苛工况下可靠工作。一体型变送器在操作和系统集成方面具有很高的灵活性：操作和接线在变送器的同一侧，可选远程显示、可自由配置的I/O功能和多样的系统总线集成方式。心跳技术确保了可靠测量和合规校验。

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## 特征和规格

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### 液体

#### 测量原理

电磁

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#### 产品标题

Specialist for demanding water and wastewater applications with a compact, easily accessible transmitter.

Reliable measurement at constant accuracy with 0 x DN inlet run and no pressure loss.

Dedicated to the measurement of industrial or municipal water and wastewater .

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#### 传感器特点

Flexible engineering – sensor with fixed or lap-joint process connections.

Long-term operation – robust and completely welded sensor. Improved plant availability – sensor compliant with industry-specific requirements.

International drinking water approvals.

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#### 变送器特点

Full access to process and diagnostic information – numerous, freely combinable I/Os and fieldbuses. Reduced complexity and variety – freely configurable I/O functionality. Integrated verification – Heartbeat Technology.

Compact dual-compartment housing with up to 3 I/Os. Backlit display with touch control and WLAN access. Remote display available.

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#### 公称口径范围

DN 25 to 3000(1 to 120")

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#### 接液部件材质

Liner: Polyurethane; Hard rubber, PTFE

Electrodes: 1.4435 (316L); Alloy C22, 2.4602 (UNS N06022); Tantalum

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#### 测量变量

Volume flow, conductivity, mass flow

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## 液体

**最大测量误差**

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**测量范围**

0.5 m<sup>3</sup>/h to 263000 m<sup>3</sup>/h (2.5gal/min to 1665 Mgal/d)

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**最大过程压力**

PN 40, Class 300, 20K

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**介质温度范围**

Liner material hard rubber: 0 to +80 °C (+32 to +176 °F)

Liner material polyurethane: -20 to +50 °C (-4 to +122 °F)

Liner material PTFE: -20 to +90 °C (-4 to +194 °F)

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**环境温度范围**

Flange material carbon steel: -10 to +60 °C (+14 to +140 °F)

Flange material stainless steel: -40 to +60 °C (-40 to +140 °F)

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**传感器外壳材质**

DN 25 to 300 (1 to 12"): AlSi10Mg, coated

DN 25 to 2400 (1 to 90"): Carbon steel with protective varnish

Sensor connection housing (standard): AlSi10Mg, coated

Sensor connection housing (option): Polycarbonate; 1.4409 (CF3M) similar to 316L

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**变送器外壳材质**

AlSi10Mg, coated; 1.4409 (CF3M) similar to 316L; stainless steel for hygienic transmitter design

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**显示/操作**

4-line backlit display with touch control (operation from outside)

Configuration via local display and operating tools possible

Remote display available

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**液体****输出**

3 outputs:

4-20 mA HART (active/passive)

4-20 mA WirelessHART

4-20 mA (active/passive)

Pulse/frequency/switch output (active/passive)

Double pulse output (active/passive)

Relay output

**输入**

Status input 4-20 mA input

**数字通信**

HART, PROFIBUS DP, PROFIBUS PA, FOUNDATION Fieldbus, Modbus RS485, Profinet, Ethernet/IP, OPC-UA

**电源**

DC 24 V

AC 100 to 230 V

AC 100 to 230 V / DC 24 V (non-hazardous area)

**防爆认证**

ATEX, IECEx, cCSAus, Nepsi, INMETRO, UK Ex

**产品安全性**

CE, C-tick, EAC marking

**功能安全性**

Functional safety according to IEC 61508, applicable in safety-relevant applications in accordance with IEC 61511

**计量认证和证书**

Calibration performed on accredited calibration facilities (acc. to ISO/IEC 17025), NAMUR

Heartbeat Technology complies with the requirements for measurement traceability according to ISO 9001:2015 – Section 7.1.5.2 a (TÜV SÜD attestation)

液体

**船级认证和证书**

LR approval, DNV GL approval, ABS approval, BV approval

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**压力认证和证书**

CRN, PED

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**材料证书**

3.1 material

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**卫生型认证和证书**

ACS, KTW/W270, NSF 61, WRAS BS 6920

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更多信息 [www.endress.com.cn/5W3B](http://www.endress.com.cn/5W3B)