

Proline Promass G 100

科里奥利质量流量计

带超紧凑型变送器的集成化高压传感器



详细信息和最新价格参见:

www.endress.com.cn/8G1B

优势:

- 简单安全的过程集成 – 螺纹连接
- 过程测量点数量少：多变量测量(流量，密度，温度)
- 所需安装空间小：无前/后直管段长度要求
- 变送器所需安装空间小：最小空间内完全实现所有功能
- 节省时间的现场操作，无需其他软件和硬件 – 内置Web服务器
- 内置验证 – 心跳技术(Heartbeat Technology)

产品规格参数

- **最大测量误差** Mass flow (liquid): $\pm 0.15\%$ Volume flow (liquid): $\pm 0.15\%$ Mass flow (gas): $\pm 0.75\%$ Density (liquid): $\pm 0.0005 \text{ g/cm}^3$
- **测量范围** 0 to 18 000 kg/h (0 to 662 lb/min)
- **介质温度范围** -50 to $+150 \text{ }^\circ\text{C}$ (-58 to $+302 \text{ }^\circ\text{F}$)
- **最大过程压力** 350 bar (5080 psi)
- **接液部件材质** Measuring tube: 1.4435 (316L) Connection: 1.4404 (316/316L)

应用领域: Promass G可以在压力不超过350 bar (5080 psi)的高压应用场合对液体和气体进行安全、精确的测量。采用安全隔膜和螺纹过程连接进行简单和安全的安装。与当今最小尺寸的变送器外壳配套使用，能以最小尺寸实现所有性能。设计用于空间狭小的应用场合，Promass G 100是系统集成商、成套设备制造商和设备制造商的最佳选择。

特征和规格

Density/Concentration

测量原理

科里奥利质量流量

Density/Concentration

产品标题

Most compact high-pressure sensor with an ultra-compact transmitter. Accurate measurement of liquids and gases in high-pressure applications.

传感器特点

Easy and safe process integration – threaded connections. Fewer process measuring points – multivariable measurement (flow, density, temperature). Space - saving installation – no in-/outlet run needs. Internal threads as process connection. Process pressure up to 350 bar (5080 psi). Rupture disc available.

变送器特点

Space-saving transmitter – full functionality on the smallest footprint. Time-saving local operation without additional software and hardware – integrated web server. Integrated verification – Heartbeat Technology. Robust, ultra-compact transmitter housing. Pre - configured plug connector. Local display available.

公称口径范围

DN 8 to 25 ($\frac{3}{8}$ to 1")

接液部件材质

Measuring tube: 1.4435 (316L)
Connection: 1.4404 (316/316L)

测量变量

Mass flow, density, temperature, volume flow, corrected volume flow, reference density

最大测量误差

Mass flow (liquid): ± 0.15 %
Volume flow (liquid): ± 0.15 %
Mass flow (gas): ± 0.75 %
Density (liquid): ± 0.0005 g/cm³

测量范围

0 to 18 000 kg/h (0 to 662 lb/min)

Density/Concentration

最大过程压力

350 bar (5080 psi)

介质温度范围

-50 to +150 °C (-58 to +302 °F)

环境温度范围

-40 to +60 °C (-40 to +140 °F)

Option: -50 to +60 °C (-58 to +140 °F)

传感器外壳材质

1.4301 (304), corrosion resistant

变送器外壳材质

Compact: AlSi10Mg, coated

Compact/ultra - compact: 1.4301 (304)

防护等级

IP66/67, type 4X enclosure

显示/操作

4 - line backlit display available (no local operation)

Configuration via web browser and operating tools possible

输出

4 - 20 mA HART (active)

Pulse/frequency/switch output (passive)

输入

None

数字通信

HART, Modbus RS485, EtherNet/IP, PROFIBUS DP, PROFINET

电源

DC 20 to 30 V

防爆认证

ATEX, IECEx, cCSAus, INMETRO, NEPSI, EAC

Density/Concentration

产品安全性

CE, C-tick, EAC marking

计量认证和证书

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

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

压力认证和证书

CRN

材料证书

3.1 material

液体

测量原理

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液体

公称口径范围DN 8...25 ($\frac{3}{8}$...1")**接液部件材质**

测量管：1.4435 (316L)

连接部件：1.4404 (316/316L)

测量变量

质量流量、密度、温度、体积流量、校正体积流量、参考密度

最大测量误差

质量流量（液体）：±0.15 %

体积流量（液体）：±0.15 %

质量流量（气体）：±0.75 %

密度（液体）：±0.0005 g/cm³**测量范围**

0...18 000 kg/h (0...662 lb/min)

最大过程压力

350 bar (5080 psi)

介质温度范围

-50...+150 °C (-58...+302 °F)

环境温度范围

-40...+60 °C (-58...+140 °F)

可选：-50...+60 °C (-40...+140 °F)

传感器外壳材质

1.4301 (304), 耐腐蚀

变送器外壳材质

一体式：铝合金AlSi10Mg涂层

一体式/超紧凑型一体式：1.4301 (304)

防护等级

IP66/67, Type 4X (外壳)

液体	显示/操作 四行背光显示（无现场操作） 通过网页服务器和调试软件设置
	输出 4...20 mA HART（有源） 脉冲/频率/开关量输出（无源）
	输入 无
	数字通信 HART、Modbus RS485、EtherNet/IP、PROFIBUS DP、PROFINET
	电源 20...30 VDC
	防爆认证 ATEX、IECEX、cCSAus、INMETRO、NEPSI、EAC
	产品安全性 CE认证、C-Tick认证
	计量认证和证书 在认证标定装置上执行标定（符合ISO/IEC 17025标准） Heartbeat Technology（心跳技术）符合ISO 9001:2008标准章节7.6 a 的溯源校验要求（TÜV认证）
	材料证书 3.1材料证书
	测量原理 科里奥利质量流量

气体

气体

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测量范围

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气体

最大过程压力

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传感器外壳材质

1.4301 (304), 耐腐蚀

变送器外壳材质

一体式：铝合金AlSi10Mg涂层

一体式/超紧凑型一体式：1.4301 (304)

防护等级

IP66/67, Type 4X (外壳)

显示/操作

四行背光显示 (无现场操作)

通过网页服务器和调试软件设置

输出

4...20 mA HART (有源)

脉冲/频率/开关量输出 (无源)

输入

无

数字通信

HART、Modbus RS485、EtherNet/IP、PROFIBUS DP、PROFINET

电源

20...30 VDC

防爆认证

ATEX、IECEX、cCSAus、INMETRO、NEPSI

气体

产品安全性

CE认证、C-Tick认证

计量认证和证书

在认证标定装置上执行标定（符合ISO/IEC 17025标准）

Heartbeat Technology（心跳技术）符合ISO 9001:2008标准章节7.6 a
的溯源校验要求（TÜV认证）

材料证书

3.1材料证书

更多信息 www.endress.com.cn/8G1B