

# Proline Prosonic Flow W 400 ultrasonic flowmeter

Clamp-on flowmeter for the water and wastewater industry and for utilities: flexible, easy to install and safe



## Преимущества:

- Short inlet run thanks to FlowDC
- Low capital investment – cost-effectiveness increases with pipe diameter (up to DN 4000/160")
- Long-term stable signal – maintenance-free permanent mounting from outside with coupling pads
- Reliable measurement on various pipe materials – sensor for GRP and plastic pipes available
- Safe operation – no need to open the device due to display with touch control, background lighting
- Full remote access – web server
- Integrated diagnostics, verification and monitoring – Heartbeat Technology

Дополнительная информация и актуальные цен:

[www.casc.endress.com/9W4B](http://www.casc.endress.com/9W4B)

## Краткие характеристики

- **Макс. погрешность измерения** Volume flow:  $\pm 3\%$  o.r. for DN15  $\pm 2\%$  o.r. for DN25 to 200  $\pm 2\%$  o.r. above DN200
- **Диапазон измерения** 0 to 15 m/s (0 to 50 ft/s)
- **Диапазон температур продукта**  $-40$  to  $+130$  °C ( $-40$  to  $+266$  °F)
- **Макс. рабочее давление** N/A

**Назначение:** Prosonic Flow W 400 is the meter of choice for safe, cost-efficient and low-maintenance measurement of conductive and non-conductive liquids. The clamp-on mounting system and integrated web server allow for easy installation and operation. Thanks to the FlowDC option, the specified accuracy can be maintained despite disturbed flow

profiles. Heartbeat Technology provides continuous transparency in your process with its diagnostic, verification and monitoring functions.

## Характеристики и спецификации

### Жидкости

#### Принцип измерения

Ультразвуковой: расход

#### Заголовок для продукта

Clamp-on meter with Heartbeat Technology and web server for the water and wastewater industry.

Short inlet run thanks to FlowDC.

Bidirectional measurement for water and wastewater as well as process water and hydropower plants.

#### Функции датчика

Низкие капиталовложения – экономическая эффективность растет с увеличением диаметра трубы (до DN 4000/156"). Нет дополнительных путей утечки – внешнее измерение на наружной стороне трубы. Reliable measurement on various pipe materials – sensor for GRP and plastic pipes available.

Mounting without process interruption. Wide nominal diameter range: DN 15 to 4000 (1/2 to 160"). Medium temperature up to +130 °C (+266 °F).

#### Особенности преобразователя

Safe operation – no need to open the device due to display with touch control, background lighting. Full remote access – web server. Integrated diagnostics, verification and monitoring – Heartbeat Technology.

Transmitter housing made of durable polycarbonate or aluminium.

Remote version for wall mounting. Integrated data logger: measured values monitoring.

#### Диапазон номинальных диаметров

DN15 to 4000 (1/2 to 160")

**Жидкости****Sensor materials**

Clamp on system:

Sensor holder 1.4301 (304), 1.4404 (316L)

Sensor housing 1.4301 (304), 1.4404 (316L)

Strapping bands 1.4301 (304), 1.4404 (316L)

**Измеряемые параметры**

Volume flow, Flow velocity, Sound velocity

**Макс. погрешность измерения**

Volume flow:

±3% o.r. for DN15

±2% o.r. for DN25 to 200

±2% o.r. above DN200

**Диапазон измерения**

0 to 15 m/s (0 to 50 ft/s)

**Макс. рабочее давление**

N/A

**Диапазон температур продукта**

-40 to +130 °C (-40 to +266 °F)

**Диапазон окружающей температуры**

Sensor DN 15 to 65: -40 to 130°C

Sensor DN 50 to 4000: -40 to 130°C

**Материал корпуса сенсора**

N/A

**Материал корпуса преобразователя**

Wall-mounted housing

Polycarbonat; AlSi10Mg, coated

**Степень защиты**

Transmitter: IP66/67, Type 4X enclosure

Sensor: IP66/67, Type 4X enclosure, IP68, Type 6P enclosure (optional)

## Жидкости

### Дисплей/Настройка

4 - line backlit display with touch control (operation from outside)  
Configuration via local display, web browser and operating tools possible

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### Выходные сигналы

3 outputs:  
4 - 20 mA/4 - 20 mA HART (active)  
Pulse/frequency/switch output (passive)  
Pulse/frequency/switch output (passive)

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### Входные сигналы

Status input

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### Цифровая связь

HART

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### Источник питания

AC 100 to 240 V / AC/DC 24 V

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### Approvals

cCSAus, EAC

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### Другие сертификаты и нормативы

Другие сертификаты и нормативы

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### Безопасность изделия

Безопасность изделия

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### Метрологические нормативы и сертификаты

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

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### Морские сертификаты и нормативы

Морские сертификаты и нормативы

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