

# Prowirl 73W



## Benefits:

- Easy alignment of the sensor – included centering rings
- High availability – proven robustness, resistance to vibration, temperature shocks & water hammer
- No maintenance – lifetime calibration
- Fewer process measuring points – extended functionality enables multivariable measurement
- Highest performance – direct mass flow and energy measurement of steam, liquids and gases
- Fully industry compliant – IEC/ATEX/FM/CSA/TIIS/NEPSI/PED/CRN/NACE

## Specs at a glance

- **Max. measurement error** Volume flow: +/-1.0%
- **Measuring range** 4.0...5'210m<sup>3</sup>/h
- **Medium temperature range** -200...+400°C (-328...+752°F) up to +450°C / +842°F on request
- **Max. process pressure** PN10...40 CL 150...300 JIS 10...20K

More information and current pricing:

[www.casc.endress.com/73W](http://www.casc.endress.com/73W)

**Field of application:** The wafer device Prowirl 73W is designed for the universal measurement of the volume flow of gases, steam and liquids. The proven and patented capacitive DSC sensor ensures high precision measured values even under the toughest process conditions. Prowirl 73W offers genuine, industry-compliant two-wire technology for seamless integration into existing infrastructures and control systems. In addition it provides an integrated temperature sensor and flow computer for mass and energy.

## Features and specifications

### Liquids

### Measuring principle

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## Liquids

**Product headline**

Space saving volume flow meter for measurement of standard liquid / gas / steam applications  
Flow, temperature probe and flow computer in one device

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**Nominal diameter range**

DN 15...150  
1/2"...6"

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**Max. measurement error**

+/-0.75% vol. fl. typically +/- 1% mass fl.

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**Measuring range**

0.16...625m<sup>3</sup>/h

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**Max. process pressure**

PN10...40  
CL 150...300  
JIS 10...20K

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**Medium temperature range**

-200...+400°C  
(-330 to +750°F)  
up to +450°C / 842°F on request

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**Degree of protection**

IP 67  
NEMA 4x

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**Display/Operation**

Two line liquid  
crystal display  
Push buttons  
Quick Setup

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**Liquids****Outputs**

4...20mA

Pulse

Frequency

Status

PFM

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**Inputs**pressure input using PROFIBUS PA, HART  
or FOUNDATION Fieldbus

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**Digital communication**

HART

PROFIBUS PA

FOUNDATION Fieldbus

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**Hazardous area approvals**

ATEX

FM

CSA

TIIS

NEPSI/IEC on request

**Gas**

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**Measuring principle**

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**Product headline**Space saving volume flow meter for measurement of standard liquid /  
gas / steam applications

Flow, temperature probe and flow computer in one device

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**Nominal diameter range**

DN 15...150

1/2"...6"

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**Max. measurement error**

Volume flow: +/-1.0%

## Gas

**Measuring range**4.0...5'210m<sup>3</sup>/h**Max. process pressure**

PN10...40

CL 150...300

JIS 10...20K

**Medium temperature range**

-200...+400°C

(-328...+752°F)

up to +450°C / +842°F on request

**Degree of protection**

IP 67

NEMA 4x

**Display/Operation**Two line liquid  
crystal display

Push buttons

Quick Setup

**Outputs**

4...20mA

Pulse

Frequency

Status

PFM

**Inputs**pressure input using PROFIBUS PA  
or FOUNDATION Fieldbus**Digital communication**

HART

PROFIBUS PA

FOUNDATION Fieldbus

## Gas

**Hazardous area approvals**

ATEX  
FM  
CSA  
TIIS  
NEPSI/IEC on request

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## Steam

**Measuring principle****Product headline**

Space saving volume flow meter for measurement of standard liquid / gas / steam applications  
Flow, temperature probe and flow computer in one device

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**Nominal diameter range**

DN 15...150  
1/2"...6"

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**Max. measurement error**

Volume flow: +/-1.0%  
Mass flow: +/-1.7%-2.3% (saturated steam)

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**Measuring range**

4.0...5'210m<sup>3</sup>/h

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**Max. process pressure**

PN10...40  
CL 150...300  
JIS 10...20K

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**Medium temperature range**

-200...+400°C  
(-328...+752°F)  
up to +450°C / 842°F on request

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## Steam

**Degree of protection**

IP 67  
NEMA 4x

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**Display/Operation**

Two line liquid  
crystal display  
Push buttons  
Quick Setup

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**Outputs**

4...20mA  
Pulse  
Frequency  
Status  
PFM

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**Inputs**

pressure input using PROFIBUS PA  
or FOUNDATION Fieldbus for superheated steam  
temperature input using HART for delta heat

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**Digital communication**

HART  
PROFIBUS PA  
FOUNDATION Fieldbus

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**Hazardous area approvals**

ATEX  
FM  
CSA  
TIIS  
NEPSI/IEC on request

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More information [www.casc.endress.com/73W](http://www.casc.endress.com/73W)