

# Prowirl 73F



More information and current pricing:

[www.id.endress.com/73F](http://www.id.endress.com/73F)

## Benefits:

- Highest process safety – dualsens version enables redundant measurement
- High availability – proven robustness, resistance to vibrations, temperature shocks & water hammer
- No maintenance – lifetime calibration
- Fewer process measuring points – extended functionality enables multivariable measurement
- Highest performance – direct mass flow measurement of saturated steam or liquids
- Fully industry compliant – IEC/ATEX/FM/CSA/TIIS/NEPSI

## Specs at a glance

- **Max. measurement error** +/-0.75% vol. fl. typically +/- 1% mass fl.
- **Measuring range** 0.16...2'360m<sup>3</sup>/h
- **Medium temperature range** -200...+400°C (-330 to +750°F) up to +450°C / 842°F on request
- **Max. process pressure** PN16...40 CL 150...300 JIS10...20K

**Field of application:** The Prowirl 73F 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 73F offers genuine, industry-compliant two-wire technology for seamless integration into existing infrastructures and control systems. In addition it provides an integrated temp. sensor and flow computer for mass and energy of steam, gases and liquids.

## Features and specifications

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## Liquids

**Measuring principle**

Vortex

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**Product headline**

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**

DN15...300

1/2"...12"

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**Max. measurement error**

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

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**Measuring range**

0.16...2'360m<sup>3</sup>/h

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**Max. process pressure**

PN16...40

CL 150...300

JIS10...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**

IP67

NEMA 4x

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**Display/Operation**

Two line liquid

Crystal display

Push nbuttons

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

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## Steam

**Measuring principle**

Vortex

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**Product headline**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**

DN15...300

1/2"...12"

## Steam

**Max. measurement error**

Volume flow: +/-1.0%

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

**Measuring range**0.19...5'210m<sup>3</sup>/h**Max. process pressure**

PN16...40

CL 150...300

JIS10...20K

**Medium temperature range**

-200...+400°C

(-328...+752°F)

up to +450°C / 842°F on request

**Degree of protection**

IP67

NEMA 4x

**Display/Operation**

Two line liquid

Crystal display

Push nbuttons

Quick Setup

**Outputs**

4...20mA

Pulse

Frequency

Status

PFM

**Inputs**

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

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**Steam****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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**Gas****Measuring principle**

Vortex

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**Product headline**

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**

DN15...300  
1/2"...12"

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**Max. measurement error**

Volume flow:  $\pm 1.0\%$

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**Measuring range**

3...19'700m<sup>3</sup>/h

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**Max. process pressure**

PN16...40  
CL 150...300  
JIS10...20K

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## Gas

**Medium temperature range**

-200...+400°C

(-328...+752°F)

up to +450°C / +842°F on request

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**Degree of protection**

IP67

NEMA 4x

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**Display/Operation**

Two line liquid

Crystal display

Push nbuttons

Quick Setup

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**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

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