

Prowirl 73F



More information and current pricing:

www.apsc.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** Volume flow: +/-1.0% Mass flow: +/-1.7%-2.3% (saturated steam)
- **Measuring range** 0.19...5'210m³/h
- **Medium temperature range** -200...+400°C (-328...+752°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

Liquids

Measuring principle

Vortex

Product headline

Volume flow meter for measurement of standard liquid / gas / steam applications

Flow, temperature probe and flow computer in one device

Nominal diameter range

DN15...300

1/2"...12"

Max. measurement error

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

Measuring range

0.16...2'360m³/h

Max. process pressure

PN16...40

CL 150...300

JIS10...20K

Medium temperature range

-200...+400°C

(-330 to +750°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

Liquids**Outputs**

4...20mA

Pulse

Frequency

Status

PFM

Inputspressure input using PROFIBUS PA, HART
or FOUNDATION Fieldbus

Digital communication

HART

PROFIBUS PA

FOUNDATION Fieldbus

Hazardous area approvals

ATEX

FM

CSA

TIIS

NEPSI/IEC on request

Gas**Measuring principle**

Vortex

Product headlineVolume flow meter for measurement of standard liquid / gas / steam
applications

Flow, temperature probe and flow computer in one device

Nominal diameter range

DN15...300

1/2"...12"

Max. measurement error

Volume flow: +-1.0%

Gas

Measuring range3...19'700m³/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

Inputspressure input using PROFIBUS PA,
HART or FOUNDATION Fieldbus**Digital communication**

HART

PROFIBUS PA

FOUNDATION Fieldbus

Gas

Hazardous area approvals

ATEX
FM
CSA
TIIS
NEPSI/IEC on request

Steam

Measuring principle

Vortex

Product headline

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

Nominal diameter range

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

Max. measurement error

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

Measuring range

0.19...5'210m³/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

Steam

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

Digital communication

HART
PROFIBUS PA
FOUNDATION Fieldbus

Hazardous area approvals

ATEX
FM
CSA
TIIS
NEPSI/IEC on request

More information www.apsc.endress.com/73F