Prowirl 73W

More information and current pricing:
www.endress.com/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% Mass flow: +/-1.7%-2.3% (saturated steam)
- **Measuring range** 4.0...5'210m3/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

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

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

Nominal diameter range

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

Max. measurement error

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

Measuring range

0.16...625m3/h

Max. process pressure

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

Medium temperature range

-200...+400°C
(-330 to +750°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

Liquids

Outputs

4...20mA
Pulse
Frequency
Status
PFM

Inputs

pressure 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

Product headline

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

Nominal diameter range

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

Max. measurement error

Volume flow: +/-1.0%

Gas

Measuring range
4.0...5'210m3/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

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

Nominal diameter range

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

Max. measurement error

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

Measuring range

4.0...5'210m3/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

Steam

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 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.endress.com/73W**