For initial set up, we strongly recommend the use of the relevant manuals in addition!

SITRANS FX330 Vortex flowmeter



Installation, assembly, start-up and maintenance may only be performed by appropriately trained personnel.



For use in hazardous areas, special codes and regulations are applicable which are supplied in a separate document that describes all hazardous area relevant information.



The responsibility as to the suitability, intended use and corrosion resistance of the used materials against the measured fluid of this device rests solely with the operator.



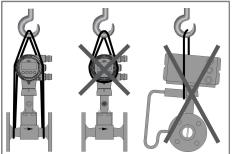
For complete documentation (manuals, supplementary manuals, data sheets and certificates) please refer to http://www.siemens.com/processinstrumentation/documentation.



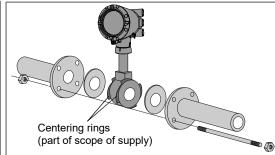
For devices used in SIL applications, additional safety notes apply. For detailed information refer to the "Safety Manual".

1 Installation

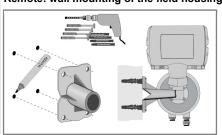
Transport



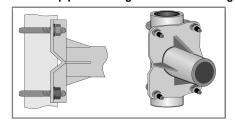
Sandwich design - centering rings



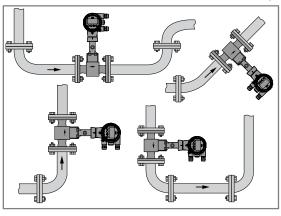
Remote: wall mounting of the field housing

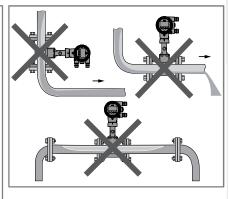


Remote: pipe mounting of the field housing

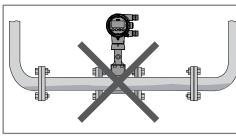


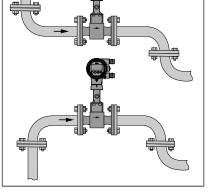
Liquids



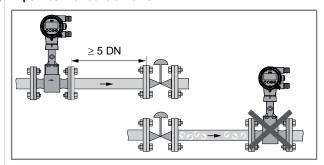


Steam & gases



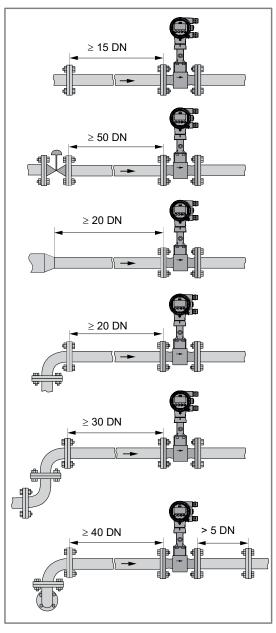


Pipelines with control valve

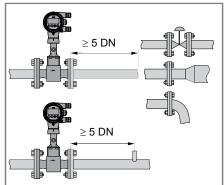


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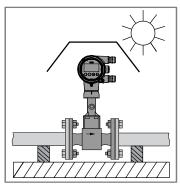
Minimum inlet section



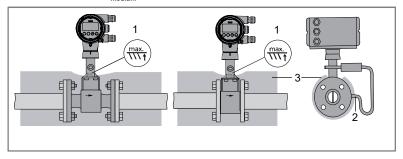
Minimum outlet section



Sunshade



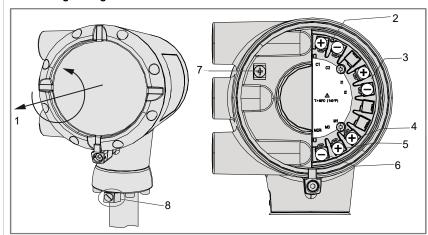
Heat insulation for $T_{medium} > +160$ °C / +320°F



- 1 Marking of max. height of the insulation
- 2 Max. thickness of the insulation up to the bend of the pressure pipe
- 3 Insulation

2 Electrical connection

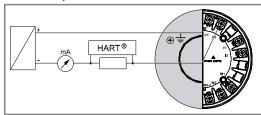
Connecting the signal converter



- 1 Open the housing cover of the electrical terminal compartment using the key
- 2 Signal converter supply and 4...20 mA loop
- 3 4...20 mA current input, external transmitter, optional
- 4 Terminal M1 binary (high current) 5 Terminal M3 binary (NAMUR)
- 6 Terminal M2/4 binary, common minus connection
- 7 Ground terminal in housing
- 8 Ground terminal on connection piece between flow sensor and signal converter

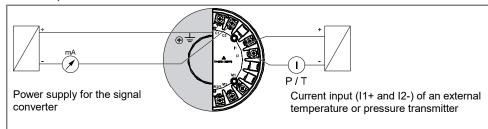
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Current output

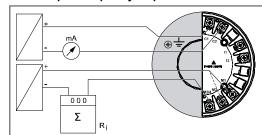


Connect current loop 4..20 mA to terminals C1+ and C2-

Current input



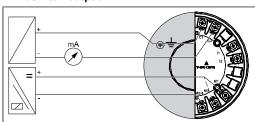
Pulse output / frequency output



The maximum frequency of both pulse output and frequency output is 1000 Hz

The connection is made between terminal M2/4 Common (-) and M1 for Hi Current (+) or M3 NAMUR (+)

Limit switch output



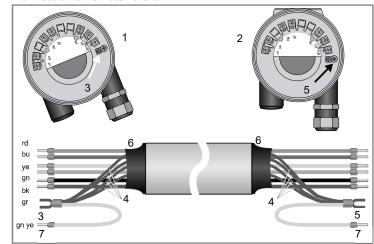
Connection NAMUR: M2/4 (common); M3 (open collector)

Connection transistor output: M2/4 (common); M1 (open collector)

Status output

The connection is made between terminal M2/4 Common (-) and M1 for Hi Current (+) or M3 NAMUR (+)

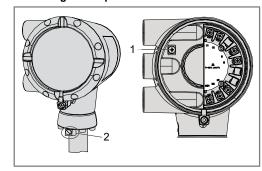
Connection of remote version



Terminal	Strand colour
rd	red
bu	blue
bk	black
gr	grey
ye	yellow
gn	green
gnye	Shielding

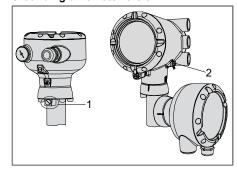
- 1 Connection terminal flow sensor
- 2 Connection terminal signal converter
- 3 Connection shielding flow sensor
- 4 Shielding (drain wire and overall shield)
- 5 Connection shielding signal converter
- 6 Heat shrink tubing
- 7 Shielding

Grounding of compact version



- 1 Ground terminal in housing
- 2 Ground terminal on connection piece between flow sensor and signal converter

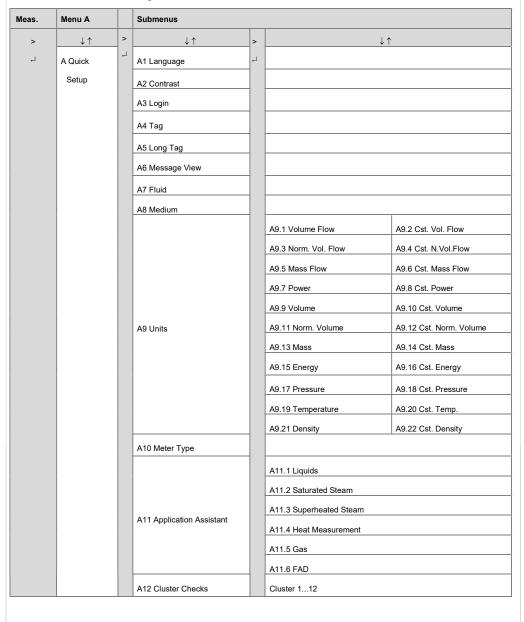
Grounding of remote version

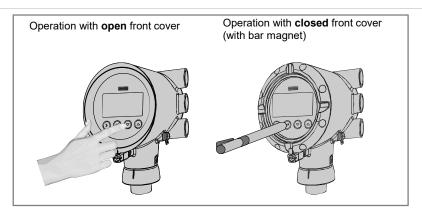


- 1 Ground terminal on flow sensor
- 2 Ground terminal on signal converter housing

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3 Quick Setup





Access level	Default password	Permissions
User	0000 (any unassigned password)	View device information Configure the display (C5), including changing the display language and the content of the measurement pages
Operator	0009	All rights of "User" access level Configure binary output (C2.2) Configure all HART® communication options (C3) with the exception of "C3.1.1 Current Loop Mode" Change "Operator" password (C6.2.2) – note that the new password must have three leading zeroes ("000")
Expert	0058	Activate a different meter type All configuration rights, especially process setup (C1) and current output (C2.1) Change "Expert" password (C6.2.2) – note that the new

Manuals and certificates:



Personal contact

If you have additional questions about the device, please contact your Siemens personal contact at:

• Partner (http://www.automation.siemens.com/partner)

To find the personal contact for your product, go to "All Products and Branches" and select "Products & Services > Industrial Automation > Process Instrumentation".