

H250 M8

Variable area flowmeters



Installation, assembly, start-up and maintenance may only be performed by appropriately trained personnel. Check the nameplate for correct operating conditions.



For use in hazardous areas, special codes and regulations are applicable. Instruments must not be connected to power supply before reading instructions described in the supplementary manual.



This instrument complies with the requirements of the Pressure Equipment Directive. Please refer to the nameplate for operating condition limits. Instruments must not be pressurised before reading instructions described in the manual.



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.

1 Installation



Specific conditions of use to be observed:

- The Variable Area Flowmeters with coated parts shall be installed and maintained such that the risk of electrostatic discharge is minimized.
- For thermal data and electrical data refer to the limits in the appropriate supplementary manual.
- Pressure surges in the process line shall be avoided.

Observe the type of protection (refer to nameplate) to apply the correct supplementary manual!

Prior to installation:

- Blow or flush out the pipes or tubes leading to the flowmeter.
- For gas flow applications, dry the pipes or tubes leading to the flowmeter.

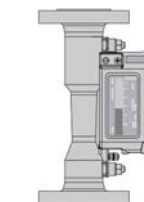
Installation:

- Align the pipes or tubes leading to and from the flowmeter with the process connections to keep them free of stress.
- If necessary, support the pipes or tubes to prevent vibration being transmitted to the flowmeter.
- Install the flowmeters with inlet at the bottom and outlet at the top within 5° of the vertical.
- Follow accepted plumbing practices for threaded or flanged fittings and the intended use.

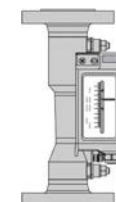
For accurate flow measurement, the application data should be consistent with the sizing data and calibration of the variable area flowmeter.

Device variants

Variants are illustrated as an example with EN 1092-1 / ASME B16.5 flanges



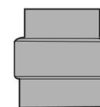
H250/RR/M8EG



H250/RR/M8MG

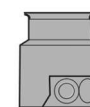
Process connection variants

ISO 228 / ASME B1.20.1
Female thread screwed



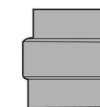
ISO 228 / ASME B1.20.1
Female thread welded

DIN 32676 / ISO 2852/
ASME BPE Clamp



DIN 11851 / SMS 1146 /
DIN 11864-1 threaded coupling

EN 10357
Welding ends



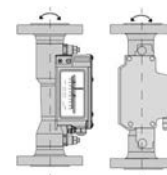
Material variants

H250/RR: standard stainless steel

H250/XX: XX = HC, Ti, Mo, In etc. special alloy steel

Installation conditions

+/- 5° from vertical



Minimum distance between devices

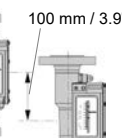
H250/M8MG



180 mm / 7.1"



130 mm / 5.1"



100 mm / 3.9"

H250/M8EG



250 mm / 9.8"



160 mm / 6.3"

130 mm / 5.1"



Avoid vibration

2 Electrical connection

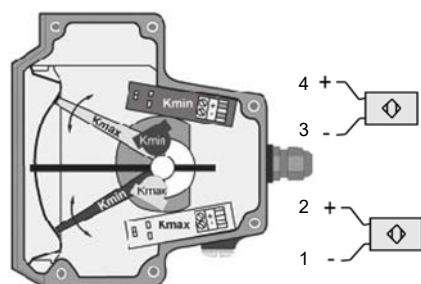


Danger:

All work on the electrical connections may only be carried out with the power disconnected.
Take note of the voltage data on the nameplate.
Observe the national regulations for electrical installations.

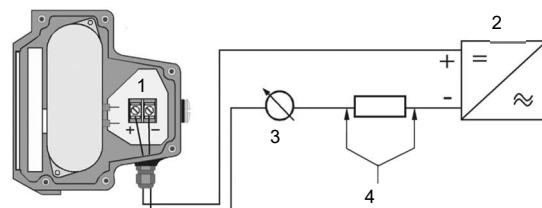
Electrical connection of NAMUR limit switches K1/K2

Power supply 8 VDC, measuring signal 1 / 3 mA



	Contact	Contact connection
4	Kmin +	Min plus
3	Kmin -	Min minus
2	Kmax +	Max plus
1	Kmax -	Max minus

Electrical signal output M8E



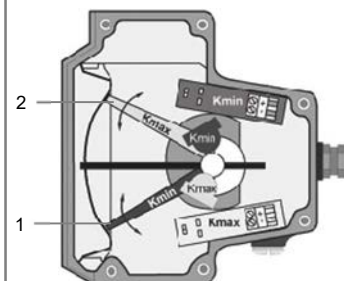
- 1 Terminal connection
- 2 Power supply 14.8...30 VDC
- 3 Measuring signal 4...20 mA
- 4 External load, HART communication



Danger:

For devices intended for use in hazardous areas with dust-resistant housing, the special conditions for sealing the electronic compartment and for the cable entry are available in the supplementary instructions.

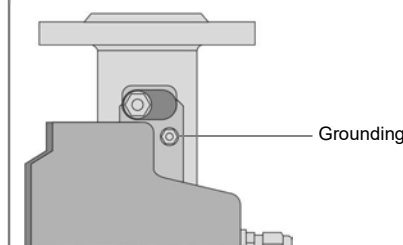
Settings of NAMUR limit switches K1/K2



Set the pointers to the desired limit values as a MIN contact (1) or MAX contact (2) along the scale.

If the pointer vane goes into the slot, an alarm is triggered. An alarm is also triggered in the event of a cable break or short circuit if a suitable amplifier is used.

Grounding connections



Download documents and software

Scan the code on the nameplate or scan the following code and enter the serial number.



Contact

Select your country from the region / language selector to view your local KROHNE contact details on:

www.krohne.com