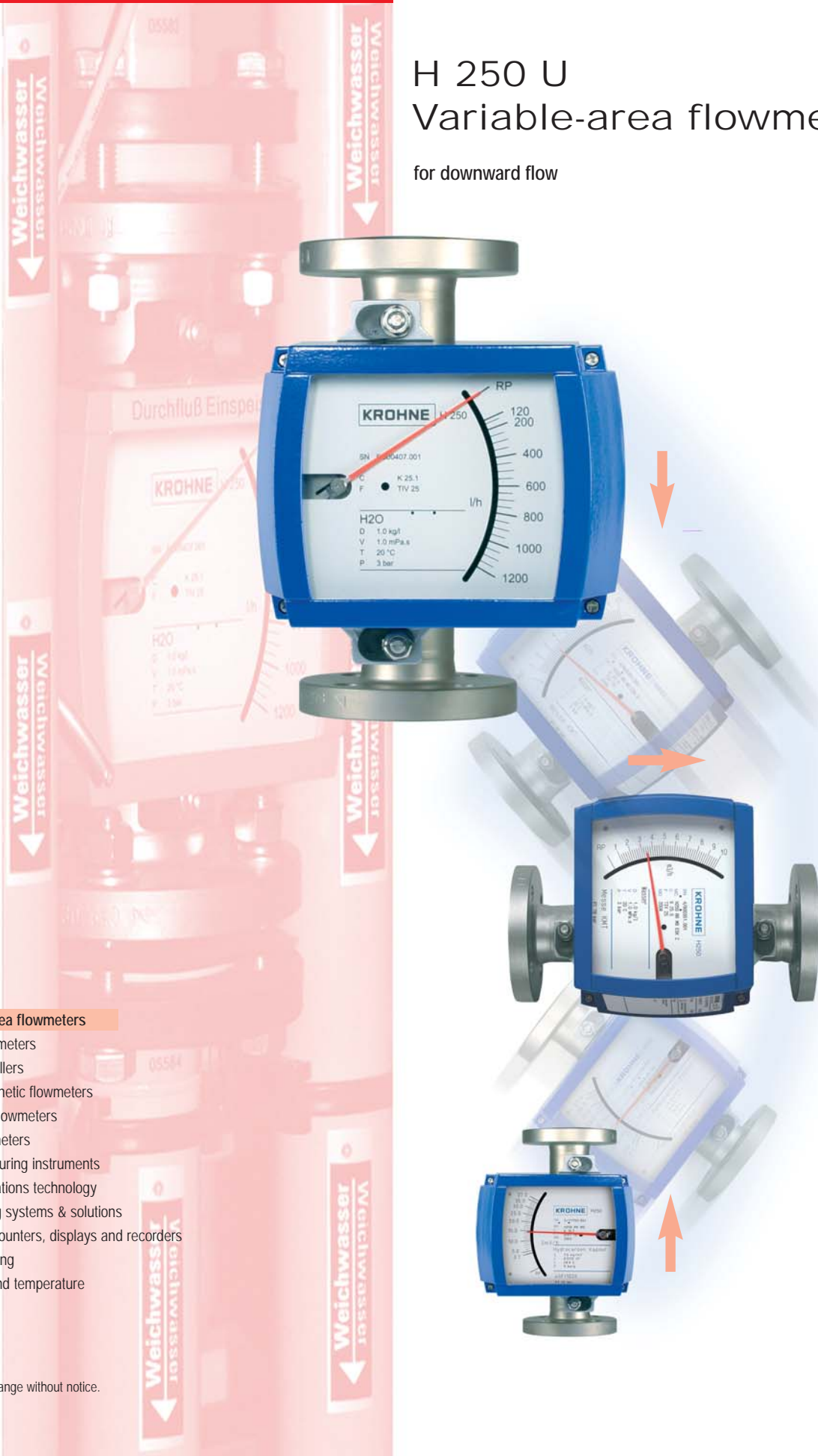


# H 250 U Variable-area flowmeter

for downward flow



### Variable area flowmeters

- Vortex flowmeters
- Flow controllers
- Electromagnetic flowmeters
- Ultrasonic flowmeters
- Mass flowmeters
- Level measuring instruments
- Communications technology
- Engineering systems & solutions
- Switches, counters, displays and recorders
- Heat metering
- Pressure and temperature

# H 250 U

... flowmetering couldn't be simpler or more flexible



## Description

H 250 U flowmeter for downward flow rate measurement of liquids.

It is an all-metal flowmeter that operates using a modified float. The flow-dependent position of the float in the measuring tube is transmitted by a magnetic coupling to the scale in the indicator housing.

The H250 U flowmeter is installed in an upright pipe. Its rugged construction makes the flowmeter especially suitable for difficult operating and environmental conditions.

In the M9 indicator the position of the float is transmitted to the pointer / magnet system and the flow value shown directly on the scale.

## All-metal flowmeter with three electrical options:

- ESK 2-wire transmitter
- ESK3-PA PROFIBUS PA transmitter
- K Switching contacts

## Measuring section

- Of highly corrosion-resistant stainless steel
- Rugged all-metal design
- All pressure welds suitable for X-ray examination

## M9 indicator

- Direct flow indication
- Electrical signal output (ESK II) with HART® communication in 2-wire technology
- Communication interface PROFIBUS-PA, as alternative to ESK II
- Max. two limit switches (K) adjustable on the scale (can be retrofitted)
- Multi-polarized ring magnet with effective eddy-current retarder
- Optionally available: seawater-resistant housing
- Optionally available: housing in stainless steel 1.4404 (M9 SS)

## Technical data

Connection	Flange or screw connection
Mounting length	250 mm (10")
Accuracy class	2.5
Electrical output	4 ... 20 mA (option)
Contacts	max. 2 NAMUR 2-wire or open collector 3-wire
Max. pressure	PN 16 ..100 (232 to 1450 psig)
Process temperature	-70 to +200°C (-94 to +392°F)
Ambient temperature	-20 to +90°C (-4 to 194°F)
Type of protection, indicator	IP 65
Material, measuring section	Stainless steel
Material, indicator	Die-cast aluminium with standard coating or corrosion- resistant coating or stainless steel
Connection H250 U	DN 15 ... DN 50 (1/2" to 2")
Turndown ratio	10 : 1

## Flow table

100% flow values for water [m³/h]

	DN 15	DN 25	DN 50
0.065		1.15	9.0
0.11		1.8	15
0.17		2.7	21
0.26		4.5	
0.42		7.6	
0.65			
1.10			
1.50			

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