flowmeter omni-VHZ gear wheel

omni-VHZ



- gear wheel flowmeter
- operation independent of viscosity
- analogue output, switching outputs
- clear, easily readable, backlit LCD display
- changeable units in the display
- designed for industrial applications
- small and compact
- most simple installation

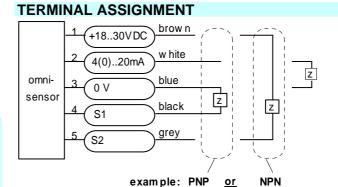
PRINCIPLE

Gear wheel flow meter, with provides a linear frequency signal by flow proportional revolution of a gear wheel and sensoring by a field biased Hall sensor. Viscosity compensated by volumetric operation.

Please take all additional data from the omni-sensor-family 51.1.omni and data sheet 51.1.omni2.

connection	at locking plug M 12x1, 5-pole					
protection class	IP67					
materials	housing	stainless steel 1.4305				
elecronic housing	glass	tempered mineral glass				
	magnet	cobalt samarium				
	rina	POM				

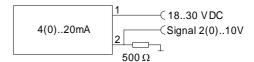
Please take all additional data from 6.1.VHZ.



Z = load

The switchpoints are changing to PNP or NPN depending to your interface automaticly (Push-Pull).

Signal output with 2(0)..10V Sample:



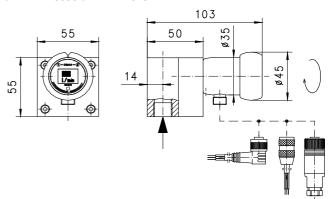
TECHNICAL DATA

measurement range	in different types 0.02150 l/min		
	(please see data sheet 6.1.VHZ.)		
accuracy	see product information		
operating pressure	6.1.VHZ.		
operating temperature	070°C		
	(goose swan-neck max.80°C)		
storage temperature	-2080°C		
supply voltage	1830 VDC		
power consumption	<1 W		
output	4(0)20mA, 2(0)10V across		
	500 Ohm resistor to 0V.		
switching values	PNP or NPN selectable, 300mA load		
S1 and S2	in sum max., programmable as min.		
	or max. value, short-circuit proof,		
	reverse-polarity proof		
hysteresis	adjustable, position of hysteresis		
	depends on min or max.		
display	graphical LCD display extended		
	temperature range -2070°C,		
	32x16 pixels, back-lit, shows value		
	and units, LED signalling lamp with		
	simultaneous message in display.		

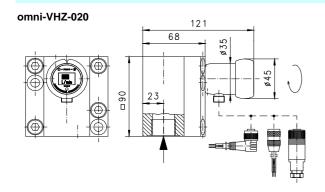
MOUNTING

The converters are connected by plugs to the flowmeter. There is no electrical connection between the local electronics and the flowmeter. Please note that the flowmeter and the smart electronics are paired to one another (same production number) and please follow the mounting instructions for the relevant primary sensor or Flowmeter.

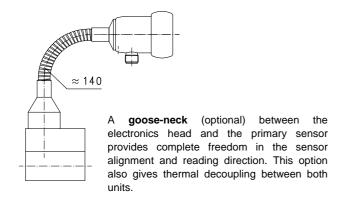
omni-VHZ008 / omni-VHZ010

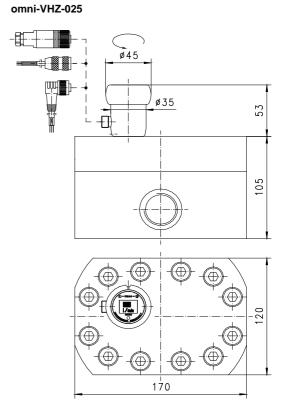


assembly dimensions see product information 6.1.VHZ.



assembly dimensions see product information 6.1.VHZ.





assembly dimensions see product information 6.1.VHZ.

NOMENCLATURE

omni-VHZ	800	S			basic type specification
	000			•	•
	800				DN 8
	010			•	DN 10
	020			•	DN 20
	025			•	DN 25
		S		•	connection for locking plug M12x1 , 5-pole
			Н	O	goose-neck

IMPORTANT ORDER DETAILS

- the primary sensor is ordered as follows, e.g. VHZ-010... with omni-VHZ010S...

ACCESSORY

Locking plug M12x1

K5	PU-	02	S	G		basic type
						specification
K5					•	ready-made cable 5-pole
KB05					•	self makable cable 5-pole
	PU-				•	material PUR
		02			•	length 2 m
		05			•	length 5 m
		10			•	length 10 m
			S		•	moulded-on plug
				G	•	straight plug
				W	•	angled plug 90°



All technical changes reserved

●BASIC Standard OBASIC Programme option □VARIO Special option ⊕ PLUS Accessories

