flowmeter omni-RT



- universal turbine flowmeter
- * 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

The circuitry of the omni is able to detect, display and convert the measuring values of the flowmeter (5.1.RT.).

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

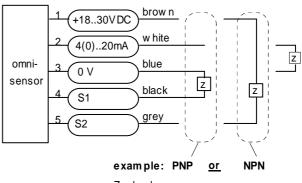
TECHNICAL DATA

measurement range	in different types 0.1168 m³/h		
	(please see data sheet 5.1.RT.)		
accuracy	see product information		
operating pressure	5.1.RT.		
operating temperature	070°C		
	(with goose-neck max.85°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.				
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			
	ring	POM			

Please take all additional data from 5.1.RT.

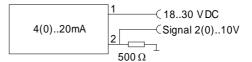
TERMINAL ASSIGNMENT



Z = load

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

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

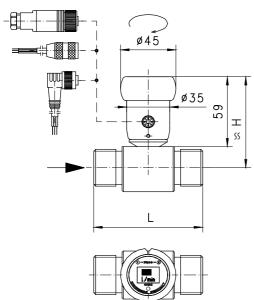


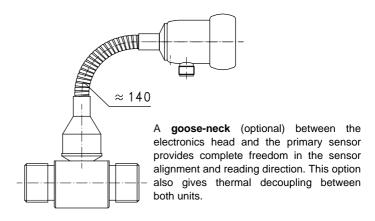
MOUNTING

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.

DIMENSIONS

locking plug M12x1, 5-pole (accessory)





assembly dimensions see product information 5.1.RT.

NOMENCLATURE

omni-RT S			basic type	
				specification
omni-RT			•	omni at flowmeter RT
	S		•	connection for locking plug M12x1, 5-pole
		Н	O	goose-neck

IMPORTANT ORDER DETAILS

- the primary sensor is ordered as follows, e.g. RT-015...with omni-RTS.

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

