Flow meter for liquid media

flow-captor 4115.3x

The flow-captor type 4115.30 is ideal for all measurement and control tasks within automation processes and other industrial applications where liquid media have to be controlled. The sensor works according to the calorimetric measuring principle which allows the adjustment of the measuring range to a large quantity spectrum. It operates fully electronically and without mechanically moved parts.

- precise flow measurement
- adjustable measuring range
- either with 4 20 mA current output or with 0.1 - 10 V voltage outpout
- robust stainless steel construction (special potting)
- ISO 9001:2015



Technical data					
Туре	4115.3x	4115.3x S115/2			
Medium	water-based	oil-based			
Sensor data					
Measuring range	cont. adjustable from 0 - 20 cm/s to 0 - 200 cm/s ¹⁾	cont. adjustable from 0 to 200 cm/s ²			
	other range on request				
Set-point range	zero point and range adjustment by potentiometer				
Medium temperature	-10 °C - +80 °C				
Ambient temperature	-10 °C - +60 °C				
Pressure	max. 30 bar				
Response time	2 -10 sec. depends on measuring conditions				
Linearity deviation	< 5 % most favourable straight line related to the final value				
Repeatability	< 2 %				
Temperature drift	< 0.3 % per Kelvin				
Mechanical data					
Protection class	IP65				
Material housing / sensor	stainless steel AISI 303 (other material on request)				
Material of sensor head	stainless steel AISI 303 (other material on request)				
Installation	by means of union nut G 1" A, SW 37 mm (stainless steel AISI 303)				
Electrical connection	2 m moulded oilflex cable 3 x 0.5 mm ²				
Housing dimensions	see drawing on next page				
Electrical data					
Operating voltage	24 VDC ±10 %				
Power consumption	approx. 100 - 200 mA (at max. flow)				
Initial operation	approx. 10 sec. after connection of power				
Output 4115.30	4 - 20 mA				
Load 4115.30	max. 600 Ω				
Output 4115.31	0.1 - 10 V				
Load 4115.31	≥ 100 k-Ohm				
Protection circuit	reverse polarity & short circuit / overload protected up to max. 30 VDC only				
Output display	green LED				
1) data relate to water 2) calibrated wit	h insulation oil type "Shell Diala S4 ZX-I"				

 $^{^{\star}\,\mathrm{I})}$ data relate to water $^{\ 2)}$ calibrated with insulation oil type "Shell Diala S4 ZX-I"

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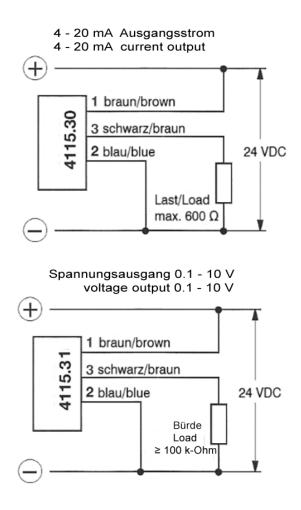
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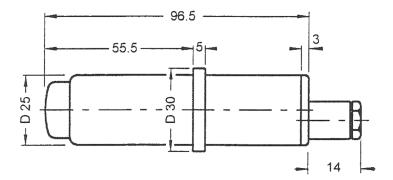
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Connection diagram:



Housing dimensions:



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Technical data subject to alteration! Rev. AH 01.10.19