

# Precise flow switch with temperature output



## flow-captor 422x.80M/.81M S141

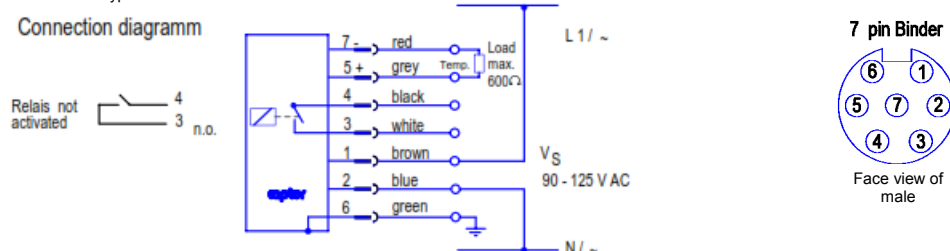
The **flow-captor 422x.80/.81M S141** is a family of compact, precise measurement flow switches with analog temperature output and analog display in a rugged stainless steel housing. They operate based on the calorimetric principle. The flow-captor allows to set an exact flow set-point and will measure simultaneously the flow rate up to the lowest flow conditions.

- Precise switching flow monitor for water or oil based solutions **up to 100 bar**
- High accuracy also under low flow conditions
- Seperate adjustment for „range“ and „set-point“
- Analog display of actual flow rate and display of adjusted set-point value
- LED display for output status
- **ISO 9001:2008**



Technical Data		
Type	4220.80M/.81M S141	4221.80M/.81M S141
Medium	water based solutions	oil based solutions
Sensor Data		
Measuring range	0-20 cm/s to 0-300 cm/s, cont. adjust <sup>1)</sup>	0-30 cm/s to 0-300 cm/s, cont. adjust <sup>2)</sup>
Set-point range	approx. 15%-90 % of measuring range setting	
Medium temperature	-20°C to +80°C	
Ambient temperature	-20°C to +70°C	
Pressure	max. 100 bar	
Response time	2 s - 10 s, according to range setting	2 s - 15 s, according to range setting
Linearity deviation	< 5% <sup>1)</sup>	< 5% <sup>2)</sup>
Repeatability	< 2%	
Hysteresis	approx. 10 %	
Mechanical Data		
Protection class	IP 67	
Housing	stainless steel WN1.4305 / AISI 303 (M)	
Sensor head	stainless steel WN1.4305 (AISI 303) alt. WN 1.4571 (AISI 313 Ti): A , other materials on request	
Thread	G ½ “ BSP, alt. ½ “ - 14 NPT	
Connection	7-pin Binder, (order cable 4926 separately)	
Electrical Data		
Operating voltage	90 - 125 VAC	
Switching current / Contact load	≤ 5 A (125 VAC), max. 5A 150W at VDC	
Electrical output, flow	relay with potentialfree single pole double throw contact	
Initial operation	approx. 10 s after connection of power	
Flow < set-point	.80	.81
- LED, green	off	off
- Output relay	activated	not activated
Temperature output	-10°C bis +80°C $\overset{\Delta}{\cong}$ 4 – 20 mA	

<sup>1)</sup> data relate to water <sup>2)</sup> calibrated with insulation oil type "Shell Diala"



**weber**