

TECHNICAL INFORMATION



flow-captor Type 412-.80/.81 M S140

The flow-captor type 412-.80/.81 **M** is a family of compact, precise metering flow switches with 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
- Separate 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 9002** certified manufacturing
- **CE** approval



Housing Dimensions in mm: OD 66 X H 109/69

Technical Data

Type	4120.80/.81 M S140	4121.80/.81 M S140
Medium	water based solutions	oil-based solutions

Sensor Data

Measuring range	0-20 cm/s to 0-300 cm/s, cont. adjust ¹⁾	0-30 cm/s to 0-300 cm/s, cont. adjust ²⁾
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% ¹⁾	< 5% ²⁾
Repeatability	< 2%	
Hysteresis	approx. 10 %	

Mechanical Data

Protection class	IP 67
Housing	stainless steel WN 1.4305 (V2A)
Sensor head	stainless steel WN 1.4305 (V2A,) - (WN 1.4571 (V4A), (Titanium, Hastelloy® C4 or C22 on request)
Thread	G½ A (½" BSP), alt. ½" - 14 NPT
Connection	Brad Harrison male socket, 5 pin + 2 m oilflex cable 5 x 0.5 mm² with coupling (S140)

Electrical Data

Operating voltage	90-250 V AC
Switching current	≤ 5 A (30 V DC / 240 V AC)
Initial operation	approx. 10 s after connection of power
Electrical output	.80 normally closed (n.c.), .81 normally open (n.o.)

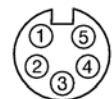
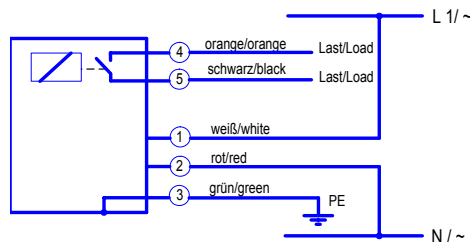
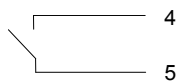
Flow < set-point	.80	.81
- LED, green	off	off
- Output relay	activated	not activated

¹⁾ data applies to water

²⁾ depends on oil solution type

Connection diagram

Relay not activated



Face view of male

weber

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