Flow monitors, mechanical, with paddle, with switching output

S+S REGELTECHNIK

Mechanical paddle flow monitor **RHE**ASREG® **SW** with switching output, in an impact-resistant plastic housing, with stainless-steel paddle, for flow monitoring of liquid and gaseous, non-aggressive media in pipes, hydraulic systems of ¾'' through ½'' to 8'' diameter.

The flow sensor is used as a flow controller or low water alarm, e. g. for pumps in oil and cooling circuits, cooling systems, evaporators, compressors and heat exchangers, with brass or stainless-steel bodies.

SW





SW-3E
SW-4E

Incl. attached Tee Fitting according to DIN 2950

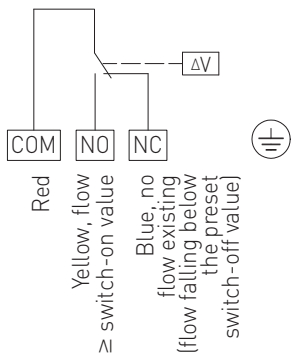
TECHNICAL DATA

Switching capacity:	15 (8) A; 24…250 V AC, at 24 V AC min. 150 mA
Contact:	dustproof microswitch as potential-free single-pole changeover contact
Housing:	plastic, UV-resistant, material polyamide, 30 % glass-globe reinforced, colour traffic white (similar to RAL 9016)
Housing dimensions:	108 x 70 x 73.5 mm (Thor 2)
Base body:	galvanised steel
Screwed socket:	brass or stainless steel (see table)
Paddle:	stainless steel **V4A** (1.4401)
Cable connection:	**cable gland**, plastic (M 20 x 1.5; with strain relief, exchangeable, inner diameter 8 - 13 mm)
Housing temperature:	–40…+85 °C
Max. temperature of medium:	+120 °C
Electrical connection:	0.14 - 1.5 mm², via screw terminals
Protection class:	I (according to EN 60 730)
Protection type:	IP 65 (according to EN 60 529)
Standards:	CE conformity, EMC directive 2014 / 30 / EU, low-voltage directive 2014 / 35 / EU
FUNCTION	
Monitor:	Contact COM – NO (red – yellow) breaks when flow rate drops to the preset value. Simultaneously, contact COM – NC (red - blue) closes and can be used as signal contact. Device is factory-set to the minimum switch-off value, which can be increased by turning the range adjusting screw clockwise.
Installation:	vertical in horizontal pipes, tee R x'' according to DIN 2950, min. smoothing distance = 5 x pipe diameter upstream and downstream of paddle

Table of switching values

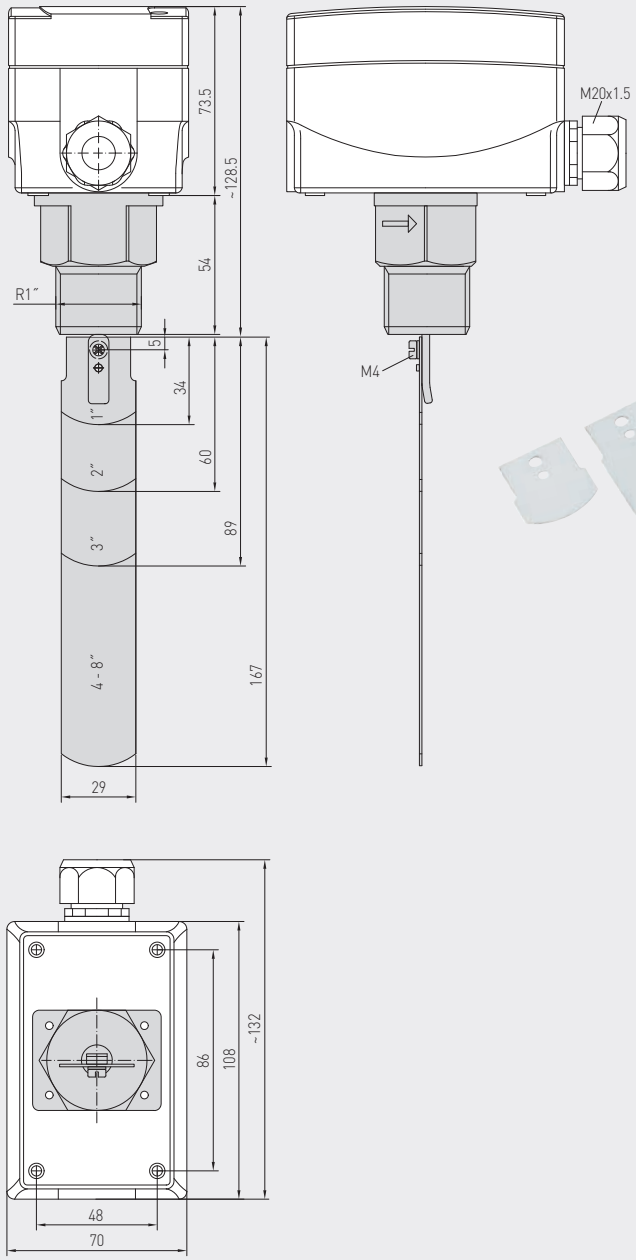
Pipe Ø DN (inches)	**Paddle combination PSW-09**	**Factory Setting OFF / ON** (m³/h)	**Max. Setting OFF / ON** (m³/h)
SW-1 / SW-2			
1"	1	0.6 / 1.0	2.0 / 2.1
1 ¼"	1	0.8 / 1.3	2.8 / 3.0
1 ½"	1	1.1 / 1.7	3.7 / 4.0
2"	1, 2	2.2 / 3.1	5.7 / 6.1
2 ½"	1, 2	2.7 / 4.0	6.5 / 7.0
3"	1, 2, 3	4.3 / 6.2	10.7 / 11.4
4"	1, 2, 3	11.4 / 14.7	27.7 / 29.0
	1, 2, 3, 4	6.1 / 8.0	17.3 / 18.4
5"	1, 2, 3	22.9 / 28.4	53.3 / 55.6
	1, 2, 3, 4	9.3 / 12.9	25.2 / 26.8
6"	1, 2, 3	35.9 / 43.1	81.7 / 85.1
	1, 2, 3, 4	12.3 / 16.8	30.6 / 32.7
8"	1, 2, 3	72.6 / 85.1	165.7 / 172.5
	1, 2, 3, 4	38.6 / 46.5	90.8 / 94.2
SW-3 / SW-4			
½"	–	0.174 / 0.48	0.846 / 0.948
¾"	–	0.138 / 0.408	0.768 / 0.858

Connecting diagram **SW**



Dimensional drawing

SW
PSW-09



SW



PSW-09
Set of stainless steel paddles (Spare part)

Pipe diameters with paddle combinations

Pipe Ø DN (inches)	(mm)	Paddle combination PSW-09	
½"	15 mm	–	(SW-3E incl. Tee Fitting)
¾"	20 mm	–	(SW-4E incl. Tee Fitting)
1"	25 mm	1	
1 ¼"	32 mm	1	
1 ½"	40 mm	1	
2"	50 mm	1, 2	
2 ½"	65 mm	1, 2	
3"	80 mm	1, 2, 3	
4"	100 mm	1, 2, 3 plus 4	(shorten to 92 mm)
5"	125 mm	1, 2, 3 plus 4	(shorten to 117 mm)
6"	150 mm	1, 2, 3 plus 4	(shorten to 143 mm)
8"	200 mm	1, 2, 3 plus 4	(unshortened)

RHEASREG® SW Flow monitors, mechanical, with paddle

Type / WG01	Pipe Ø DN	Max. Operating Pressure PN max	Medium	(Contacting Parts Made of)	Incl. attached Tee Fitting according to DIN 2950	Item No.	Price
SW							
SW-1E	1" - 8"	**11 bar**	**normal**	(brass)	–	1702-3011-0000-000	**119,68 €**
SW-2E	1" - 8"	**30 bar**	**aggressive**	(stainless steel **V4A**)	–	1702-3012-0101-000	**378,57 €**
SW-3E	½"	**11 bar**	**normal**	(brass)	⊥⊥	1702-3013-0031-000	**220,46 €**
SW-4E	¾"	**11 bar**	**normal**	(brass)	⊥⊥	1702-3014-0041-000	**220,46 €**
Spare part							
PSW-09	**Set of stainless steel paddles**, 4 pieces, pipe Ø 1" - 8", for SW-1E and SW-2E (included in the scope of delivery)					7700-0010-1000-000	**19,80 €**