

spirax /sarco

TI-P046-01

CH Issue 8

Cert. No. LRQ 0963008

Self-acting Temperature Control Systems

Description

A range of self-powered control systems that incorporate sensor, actuator, set point adjustment/indicator for use with the following valve types:-

2-port	KA, KB, KC, KX, KY, SB, SBRA, BX, BXRA, BM, BMRA, BMF, BMFRA, NS, NSRA
3-port	TW

Available types

Set point adjustment at sensor

SA121	For use on	2-port valves	DN15 to 80
JAIZI Toruse on -	3-port valves	DN20 to 50	
SA1219	For use on	3-port valves	DN80 and 100
SA128	For use on	2-port valves	DN15 to 25
OA 120	1 01 030 011	3-port valves	DN20 and 25

Set point adjustment at valve

SA122	For use on	2-port valves	DN15 to 25
UA 122			DN20 and 25

Remote set point adjustment

SA123	For use on	2-port valves	DN15 to 80
UNIZU	1 01 430 011	3-port valves	DN20 to 50

Optional extras

Union kit

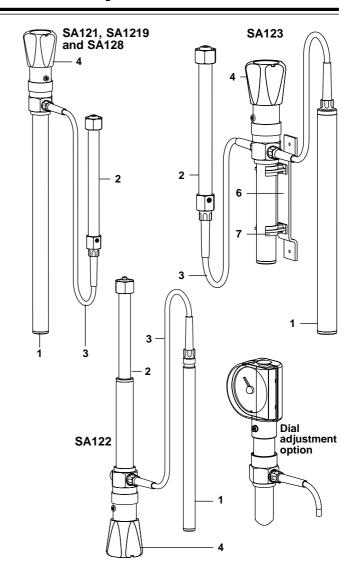
Pocket Indirect immersion			
Material options include mild steel, copper, brass, stainless steel			
Glass option also avai	lable for SA122 and SA123 only.		
Wall bracket			
Duct adaptor	Duct mounting		
Coiled sensor Fast response			
Nickel plating			
Dial type set point adjuster			
Pt100 temperature	SA122TP and SA123TP incorporate		
sensor	an internal pocket to accept a Pt100 sensor		

Direct immersion

Materials

No	Part	Material	
1	Sensor	Brass	
2	Actuator	Brass	
3	Capillary tube	Copper with PVC	coated armoured covering
4	Adjustment head	Polypropylene	
* 5	Union kit	Brass	
6	Mounting bracket	Steel	
7	Clip	Polypropylene	
* 8	Adaptor plate (Duct fixing adaptor)	Steel	
		Mild steel	BS 980 CEW2
		Copper	BS 2871 C106
* 9	Pocket	Brass EN 12	451 CW707R H130/170
		Stainless steel	BS 3605 CFS 316S 18
		Glass	
10	Liquid fill	Kerosene	

^{*} Items 5, 8 and 9 are shown overleaf.

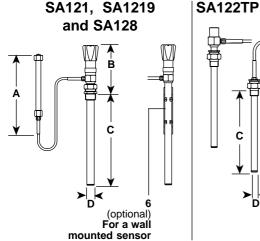


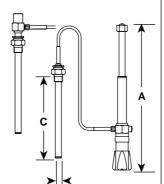
Temperature ranges

SA121,	Range 1	-15°C to 50°C
SA1219 and	Range 2	40°C to 105°C
SA123	Range 3	95°C to 160°C
Over temperature	protection ⁵⁵	5°C over set value to 190°C maximum 215°C maximum for SA123
SA122	Range 1	-20°C to 120°C
0/1122	Range 2	40°C to 170°C
Over temperature protection		55°C over set value
SA128	Range 1	-20°C to 110°C
3A120	Range 2	40°C to 170°C
Over temperature	protection 55	5°C over set value to 190°C maximum

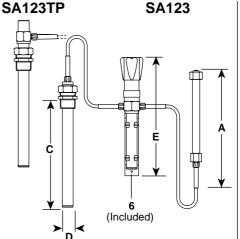
Capillary tube

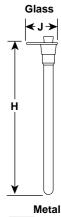
Standard length 2 m, 4 m, 8 m and 20 m.



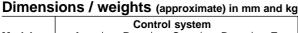


SA122

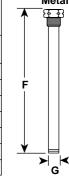




Pockets



		Cor	ntrol syste	m		Metal p	ockets	Glass p	ockets	Weight
Model	Α	В	C	D	E	F	G	Н	J	excluding pocket
SA121	275	185	310	25	-	333	28	-	-	2.0
SA1219	350	185	310	25	-	333	28	-	-	2.3
SA122	415	-	240	17	-	271	20	575	117	1.8
SA122TP	415	-	255	17	-	271	20	-	-	2.0
SA123	275	-	248	25	270	276	28	575	117	2.5
SA123TP	275	-	255	25	270	276	28	-	-	2.7
SA128	275	185	178	25	-	196	28	-	-	1.8



Union kit (for sensor immersion without pocket)

Includes gland nut, compression ring and union nipple.		
SA121, SA1219, SA123 and SA128	Items Z, Y and X	
SA122	Items W, V and U	

Pockets (for indirect immersion)

Includes pocket, gland nut and compression ring.

SA121, SA1219, SA123 and SA128	Items T, Z and Y
SA122	Items S, W and V.
Available materials	Mild steel, copper, brass and stainless steel

Long pockets (SA122 and SA123 only)

To special order only.

Having a minimum length 0.5 m, maximum length to order.

Includes pocket, bracket and rubber bung

SA122 and SA123	Items S, V, W and T, Z, Y
Available materials	Mild steel, copper, brass and stainless steel

Glass pockets (SA122 and SA123 only)

To special order only.
Includes pocket, bracket and rubber bung

SA122 and SA123	Items R. O and P
0A122 and 0A120	iteriis ix, o and i

Wall mounting bracket (Item 6)

SA121, SA1219, SA122, SA123 and SA128

Duct fixing adaptor (for air sensing within ducts)

Includes adaptor plate, union nipple, compression ring and gland nut. SA121, SA1219, SA123 and SA128 Items 8, X, Y and Z

SA122 Not available

Installation

Full instructions are given in the Installation and Maintenance Instructions provided with the product.

How to order

1 - Spirax Sarco SA121 control system, temperature range 2, having 2 m capillary and stainless steel pocket.

