

APS1

Probe Simulator

Description

The APS1 probe simulator is used in place of a level or conductivity probe to verify the correct operation of Spirax Sarco controllers. It can also be used to diagnose wiring/probe faults. It is connected to the level probe or conductivity probe wiring, avoiding the need to fire the boiler or alter water levels, and is quick and easy to use.

The APS1 has switch settings covering all Spirax Sarco probe types and ranges.

A potentiometer provides the variable input to a capacitance controller, and 4 mm test sockets are provided for connection of a multimeter, which is used to check the voltage when simulating capacitance probes.

Switches simulate wet or dry (high or low resistance) conductivity level probe conditions, and resistors are built in to represent various conductivity probe ranges.

The APS1 is powered by the controller under test, so needs no batteries or external power supply.

The unit is fitted with two inputs, connected in parallel. One is for connection of a PT2 or PT3 plug tail, and the other is a DIN 43650 connector as used on conductivity and capacitance probes.

Full operating instructions are supplied with each unit.

Principal features:

- A valuable diagnostic aid for Spirax Sarco boiler control installations.
- Compatible with all TDS / level probes and controllers.
- No need to fire boiler or alter water levels.
- No battery or power supply needed.
- Easy to operate.

Limiting conditions

Maximum ambient temperature	55°C
Protection rating	IP40

Technical data

Conductivity probe settings	22 Ω, 68 Ω, 220 Ω, 680 Ω	
	2.2 kΩ, 6.8 kΩ, 22 kΩ	
Level probe settings	LP30	6.8 kΩ / 15 kΩ
	LP31	6.8 kΩ / 15 kΩ
	LP10-4	(High sensitivity) 68 kΩ / 150 kΩ
		(Low sensitivity) 6.8 kΩ / 15 kΩ
Capacitance probe range	0 - 10 volts output	

Materials

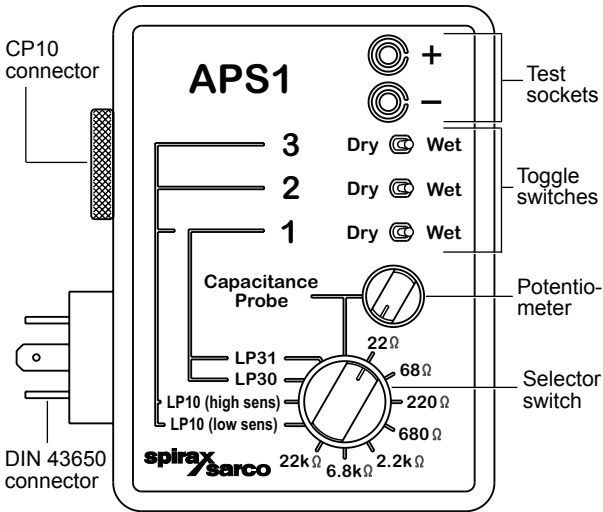
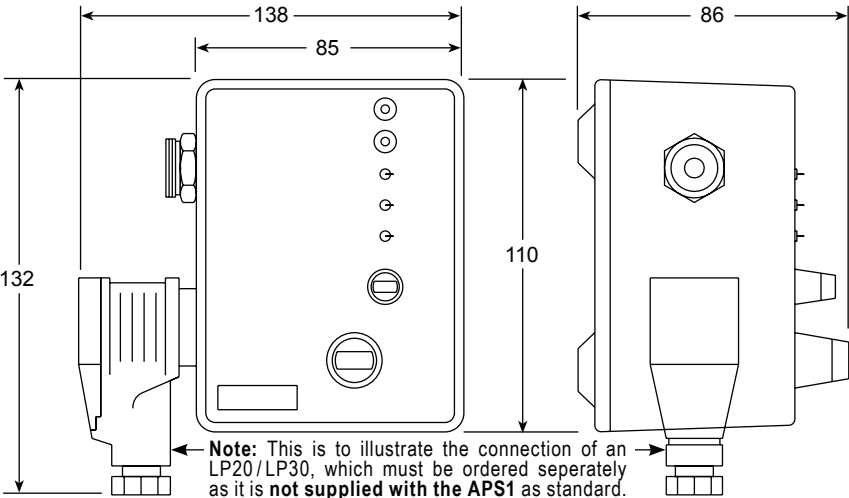
Case	Die-cast aluminium
Coating	Nylon (grey)

Dimensions

(approximate)

in mm

Weight 450 g



How to order

Example: 1 off Spirax Sarco APS1 probe simulator.



TI-P402-41

AB Issue 5

C2

Probe Chamber

Description

The Spirax Sarco C2 probe chamber enables level control or alarm probes to be fitted in situations where direct boiler shell mounting is not desired or is not possible.

The C2 probe chamber is of all welded carbon steel construction, with DN25 steam and water connections flanged to EN 1092 PN40. A 1" BSP x ½" BSP reducing bush to BS 1740 will be required if fitting a ½" BSP probe.

A Spirax Sarco sequencing purge valve is normally fitted to the base of the chamber.

The sequencing valve allows the daily (or once per shift) test of the low level alarm system, and blow through of the probe chamber water and steam connections in accordance with the Health and Safety Executive Guidance Notes BG01 and INDG436.

Principal features:

- Purpose designed level probe chamber.
- Suitable for pressures of up to 32 bar.
- All welded carbon steel construction.
- Designed for use with Spirax Sarco level probes and sequencing valves.

Pressure/temperature limits

Design pressure	32 bar g
Design temperature	239°C
Hydraulic test pressure	60 bar g

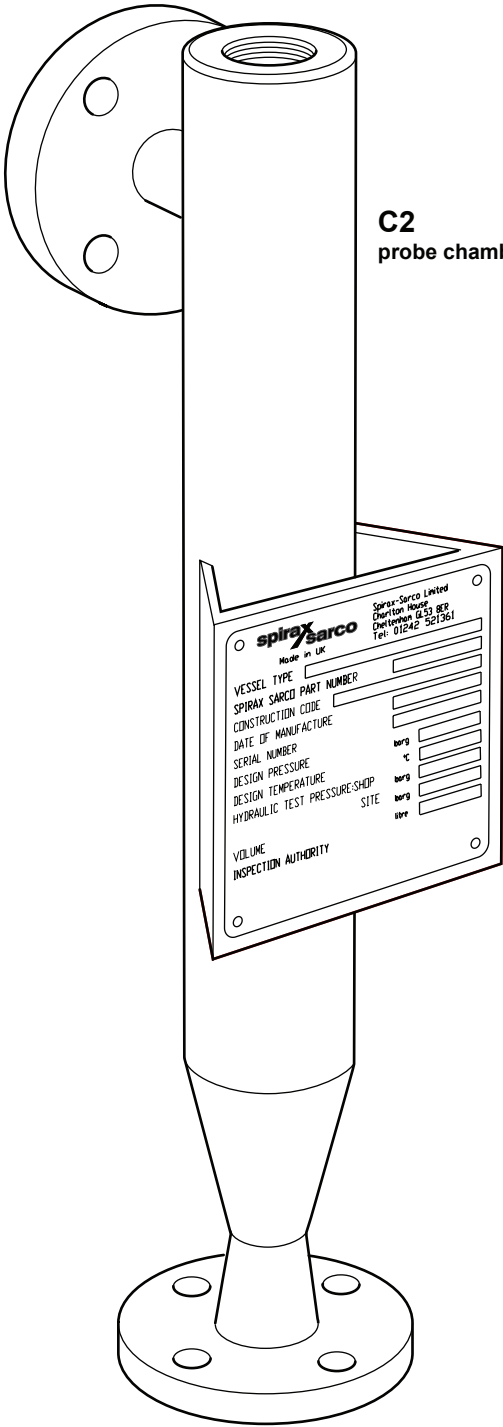
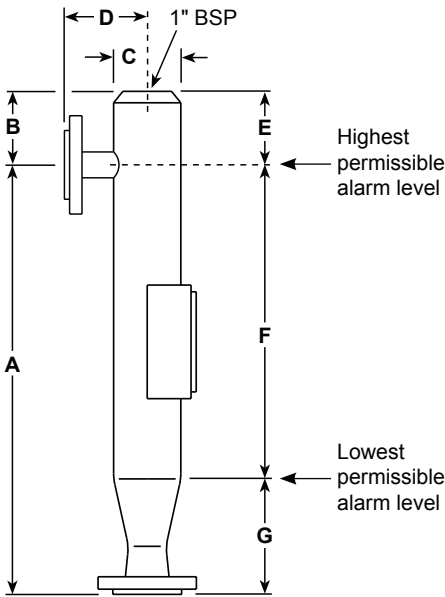
Material

Chamber	Carbon steel	ASTM A106 Gr. B or Gr.WPB
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Dimensions / weights (approximate) in mm and kg

A	B	C	D	E	F	G	Weight
457	65	73	83	65	310	147	7.5

DN25 flanged EN 1092 PN40.



C2

probe chamber

2.3

77

How to order

Example: 1 off Spirax Sarco C2 probe chamber.