



## APS 1 Probe Simulator

- 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

### Description

The APS 1 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 APS 1 has switch settings covering all Spirax Sarco probe types and ranges.

A potentiometer provides the variable input to a capacitance controller, and 4mm 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 APS 1 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 PT 1, 2, or 3 plug tail, and the other is a DIN 43650 connector as used on conductivity and capacitance probes.

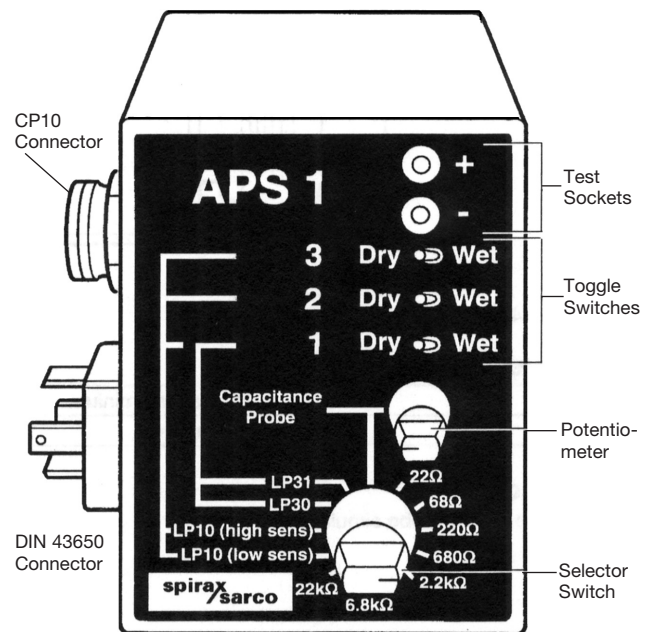
Full operating instructions are supplied with each unit.

### Limiting conditions

Maximum ambient temperature	130°F (55°C)
Protection rating	IP 40

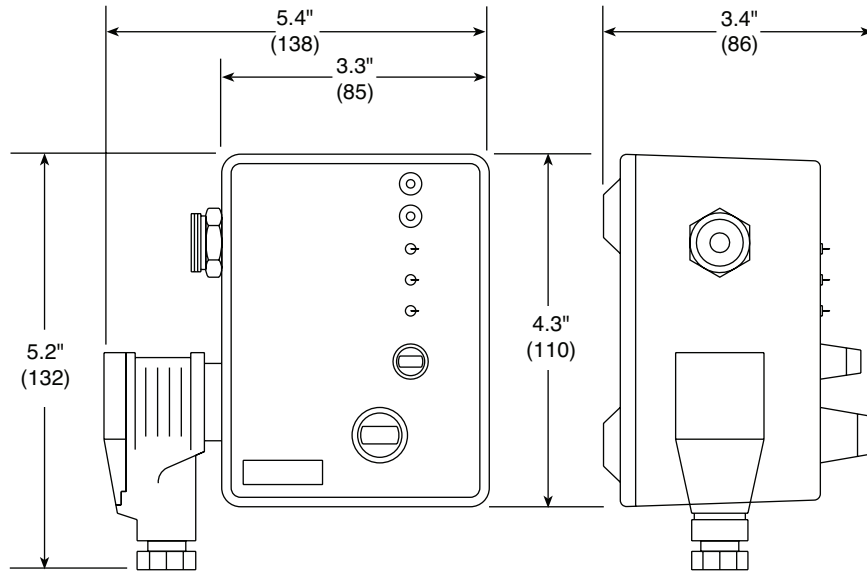
### Technical data

Conductivity probe settings	22Ω, 68Ω, 220Ω, 680Ω, 2.2kΩ, 6.8kΩ, 22kΩ
Level probe settings	
LP 31	6.8kΩ/15kΩ
LP 30	6.8kΩ/15kΩ
LP 10/EL 9 (High sensitivity)	68kΩ/150kΩ
LP 10/EL 9 (Low sensitivity)	6.8kΩ/15kΩ
Capacitance probe range	0-10 Volts output



# APS 1 Probe Simulator

Dimensions (approximate) in inches and millimeters



Weight 11lb (450g)

## Materials

Case	Die-cast aluminium
Coating	Nylon (grey)

## How to order

Spirax Sarco APS 1 probe simulator.

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