

## STS 800 Series Contamination Simulators

Instrument Name	STS SPA6	SPA6 for use with 6150AD
	<p data-bbox="467 297 596 327">Description</p> <p data-bbox="467 353 1533 454">The STS Model SPA6 consists of a simulated contamination probe containing a gas detection head which detects the presence of the simulant placed on surfaces and clothing, the resultant reading is displayed as counts per second on the 6150AD display</p>	

### Quick Users Guide

The STS SPA6 connects to the 6150AD and retains the same keypad controls and options as the real instrument. When turning on the 6150AD instrument will come on straight away and run through the normal start up procedure.



The SPA6 Probe is turned on by the switch on the top, the led will be lit green to show the instruments batteries are ok.

It must be noted the STS probe requires a longer warm up period in order to initialise the gas detection system and to allow the fan a period of time to settle after start up. If you listen to the probe on start up you will notice that the fan starts up with a fast and noisier tone and then after a few seconds settles to a slower quieter tone. Ideally the instrument and probe should be left for 30 seconds before the instrument is used to monitor.

On / Off Switch

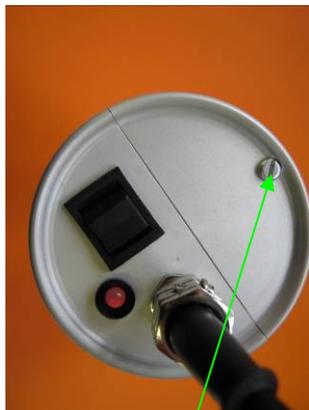
Battery condition LED

The probe head contains a very fine platinum wire detector (10 microns) and as such should be treated with respect, the grill over the front of the probe is to prevent items being pushed into the detector and is there for a reason, the gas sensor carries 2000Volts !!!

To use the simulator, take the can of LS1 liquid simulant and spray a single squirt onto a surface (you only need a small amount). Passing the probe over the sprayed area will now pick up the simulant which produces a very small gas cloud near the surface. Cross contamination can be demonstrated by wiping the sprayed surface and applying to a 2<sup>nd</sup> surface, the probe will now pick up the contamination on the new surface and the wipe used.

The spray evaporates over time and will disappear completely in 12 hours, depending on temperature and air circulation the spray is normally detectable for 2 hours approx.

Should the detection become erratic or slow in response the first point is to check the batteries. If the battery low LED (red) is displayed on the SPA6 probe , remove the top cover with a screwdriver carefully disconnect the battery pack and replace the batteries with 6 x AA cells. Reconnect the battery clip and replace the top cover.



Undo Screw to access batteries



Undo battery clip and remove battery holder



Replace batteries in holder with new AA cells

The Probe is designed to work like a real instrument and so monitoring must be carried out slowly and close to the surface , moving too quickly or too far from a surface will result in little or no response from the instrument.



Gas detector behind this grill is very sensitive and carries high voltage, do not attempt to access or push anything through grill.