



Radiation Field Simulation

The STS Safe-Series range brings new technology into handheld simulation to provide the most realistic simulators available today.

A unique radio system produces both a near isotropic field pattern from the source and from the detector. A good representation of the inverse square law and attenuation of different materials adds to the realistic response.



For basic radiation field training STS has produced the Survey-Safe a simulated field survey meter and the Safe-EPD simulated dosimeter. These units feature user definable alarms and backgrounds and a range of approx 15m.



All of the instruments in the range are compatible – so any of Survey Meter, Dosimeter and

Safe-Series combination Source may instruments

being simultaneously fielded.

The sources are available in several variants – a pocket source and mini source - both have a variable activity which has 10 levels set by a rotary dial and a radio-controlled version with 8 levels.



The mini source is just 80 x 60 perfect for hiding in a training Pocket Source is excellent for or in smaller spaces.



x 40mm and are area whilst the hiding on a person



Contamination Training Solutions

STS Contamination simulators use a clear odourless liquid spray to produce contamination on a surface to be monitored. The spray is virtually invisible on most surfaces and will last for up to 2 hours.

The liquid source material (LS1) is transferable, and so is ideal for demonstrating the hazards of cross contamination from surfaces to clothing and equipment. The contaminated surface may be cleaned using standard methods and then re-monitored to demonstrate effective decontamination techniques.

The STS range of simulated instruments incorporate a specialised gas detection head. The detector senses the small gas cloud produced by the liquid spray evaporating and the resultant signal is translated into a count rate displayed on the instrument.



STS Smart Probes offer users the ability to use their existing real meters for contamination training utilising an STS smart simulation probe or the new Training Simulation Smart Interface. Used for contamination surveys, cross contamination demonstration and decontamination verification, they offer an ideal solution to meet your regulatory training requirements.

The new probes offer longer run times due to an integrated Lithium-Ion battery with up to 12 hours training between charges. The integrated cells allow for the STS simulation circuits to be built into smaller style probes with less modifications of the original probe, meaning trainees use equipment that is very similar to what they will be using every day.

Currently Smart probes are available in a Tubular 44A style and an AP6/ DP6 style for direct connection to various meters -including the Thermo RadEye SX, Mini900, Ludlum 3 and more.





Alternatively, where users wish to use small frisker style probes such as an HP260 you can use the Training Simulator Smart interface (TSSI) which connects directly to a real meter and the Standard STS probe connecting to the interface.

The TSSI can be supplied with various connectors allowing it to be used with for instance the Ludlum 3 or 3000, Mini900, Thermo RadEye SX, Automess 6150AD and others.

All the STS Smart Series Probes and TSSI with standard LS1 and SS4 simulants and carrycases with associated cables, year's warranty.



are compatible are supplied in manuals and 1



All STS contamination monitors are based on real instrument with additional STS electronics built into them or are wholly manufactured by STS such as the Contamination Trainer and CMS. User controls, screens and instrument functions are either retained or duplicated to provide the most realistic training environment.

Training scenarios can be developed to include both field survey and contamination monitoring without ever needing to use a real source and therefore minimising exposure to both trainee and trainer alike.



Simulated Contamination Meters (Modified meters for training Only)



Thermo Mini 900

- Desktop Analogue meter
- Alarm set point
- Compatible with all standard STS probes
- Commonly used with STS 44A and EP15 probes



Thermo Electra

- Digital meter
- Alarm set point
- Compatible with all standard STS probes
- Customer to supply meter for conversion as no longer available



Ludlum 3,3A,12,14

- Analogue meter
- Fast/slow response
- Adjustable range control
- Compatible with all standard STS Probes



Rotem Ram Gene 1 MK II

- Contamination only digital Simulator (CPS)
- Inbuilt detector -no probe required
- Handheld format
- Selectable Alarm Threshold



STS Contamination Trainer

- Digital Desktop Meter
- Large Colour LCD display
- Alarm set point
- Audio on/off
- Adjustable Front legs & Carry Handle
- Powered from Mains or internal Lithium battery
- Compatible with all STS Standard Probes



STS Wall mounted Contamination Monitor

- Large Touch screen Colour LCD
- Dual Channel Alpha/Beta output with separate channel alarm LEDs
- Background check on start up
- Adjustable alarm thresholds for both channels
- Comprehensive user menu
- Audio output of clicks and separate alarm sounder
- Mains Powered 110-230V
- Compatible with STS DP6 Standard probe



Thermo FH40 Dual purpose meter

- Modified Meter to run both Gamma and Contamination probes
- Internal Gamma Detector simulation
- Compatible with FHZ732 contamination probe and FHZ512 Gamma Probe
- Unit automatically switches from internal detector to external Gamma probe when plugged in – output in uSV.
- Probe output in CPS
- Powered by rechargeable Lithium cell giving 10-12 hours run time

Simulated Smart Contamination Probes (for use with Real meters)

	<p>DP2 Smart Probe</p> <ul style="list-style-type: none"> • XL version of DP2 style probe 75cm² probe • Connects directly to Real unmodified RadEye SX • All functionality of RadEye retained • Responds to STS LS1 and SS4 simulants • Powered by Lithium Ion rechargeable battery
	<p>DP6 Smart Probe for RadEye SX</p> <ul style="list-style-type: none"> • Large area 100cm² probe • Connects directly to Real unmodified RadEye SX • All functionality of RadEye retained • Responds to STS LS1 and SS4 simulants • Powered by Lithium Ion rechargeable battery • Run time 12-14 hours
	<p>DP6 Smart Probe for Mirion Radiagem 2000</p> <ul style="list-style-type: none"> • Large area 100cm² probe • Connects directly to Real unmodified Radiagem • All functionality of Radiagem retained • Responds to STS LS1 and SS4 simulants • Powered by Lithium Ion rechargeable battery • Run time 12-14 hours
	<p>ADK Large Area Probe for Automess 6150AD</p> <ul style="list-style-type: none"> • Dual detector large area 100cm² probe • Connects directly to Real unmodified 6150AD • All functionality of retained • Automatic range switching • Setable alarm thresholds • Responds to STS LS1 and SS4 simulants • Powered by 6AA battery pack
	<p>SBM-2D Simulated Probe for Canberra MIP10D</p> <ul style="list-style-type: none"> • Dual detector large area probe • Connects directly to Canberra MIP10D • Responds to STS LS1 and SS4 simulants • Powered by Mip10 from mains supply • Probe hook so probe can be hung for non- contact hand monitoring.



STS Universal Smart Probe

- End Window probe
- Connectors available for RadEye SX, Automess 6150AD, Mini 900, Canberra MIP10D, Radiagem 2000
- Responds to STS LS1 and SS4 simulants
- Powered by Lithium Ion rechargeable battery
- Run time 12-14 hours



STS Training Simulator Smart Interface

- Interface box to connect real meter to smaller STS standard probes.
- Ideal for HP260,HP210,44A,DP2 STS Standard Probes.
- Connects directly to Real unmodified meter
- Small form size 100*80*40mm
- Responds to STS LS1 and SS4 simulants
- Powered by Lithium-Ion rechargeable battery
- Run time 12-14 hours



Bertin Saphyrad AB31 Probe

- 31cm² Dual detector probe
- Connects directly to Bertin's Saphyrad Meter
- Responds to STS LS1 and SS4 simulants
- Powered by Lithium-Ion rechargeable Cell giving 10 hours run time
- Probe has rate and Proximity to surface alarm LEDs.



Bertin Saphyrad AB170 Probe

- 170cm² Dual detector probe
- Connects directly to Bertin's Saphyrad Meter
- Responds to STS LS1 and SS4 simulants
- Powered by Lithium-Ion rechargeable Cell giving 10 hours run time
- Probe has rate and Proximity to surface alarm LEDs

Standard Contamination Probes (for use with STS simulated meters and Interface box)



44A Probe

- Cylindrical end window Probe
- 150 x 50mm Dia
- Anodised steel body
- Powered from host instrument via 5 way connector
- Compatible with all STS simulated meters and the Training Simulator Smart Interface.
- Detects STS LS1 and SS4 Simulants



EP15 Probe

- Cylindrical end window Probe
- 110 x 60mm Dia
- Anodised steel body
- Powered from host instrument via 5 way connector
- Commonly used with Mini900 Instrument
- Compatible with all STS simulated meters and the Training Simulator Smart Interface.
- Detects STS LS1 and SS4 Simulants



BP4 Probe

- Cylindrical end window Probe
- 150 x 40mm Dia handle x 70mm dia head
- Powder coated Aluminium body
- Powered from host instrument via 5 way connector
- Compatible with all STS simulated meters and the Training Simulator Smart Interface.
- Detects STS LS1 and SS4 Simulants



DP2 Probe

- Square 70cm² end window Probe
- 150 x 70 x 70mm
- Powder coated steel body
- Powered from host instrument via 5 way connector
- Compatible with all STS simulated meters and the Training Simulator Smart Interface.
- Detects STS LS1 and SS4 Simulants



HP210 Probe

- Simulated shielded probe 0.9KG
- 135 x 88x 100
- Anodised Aluminium body with steel insert
- Carry handle
- Powered from host instrument via 5 way connector
- Compatible with all STS simulated meters and the Training Simulator Smart Interface.
- Detects STS LS1 and SS4 Simulants



HP260 Pancake Probe

- Pancake probe
- 200 x 60 x 30mm
- Powder coated steel body with aluminium face plates
- Powered from host instrument via 5 way connector
- Contoured rubber grip handle
- Compatible with all STS simulated meters and the Training Simulator Smart Interface.
- Detects STS LS1 and SS4 Simulants





43-5 Large Rectangular Probe

- 76cm² Large area
- 340 x 64 x 76mm
- Powder coated steel body
- Commonly used with Ludlum Meters
- Powered from host instrument via 5 way connector
- Compatible with all STS simulated meters and the Training Simulator Smart Interface.
- Detects STS LS1 and SS4 Simulants





DP6 Large Rectangular Probe

- 100cm² Large Area Probe
- 340 x 64 x 76mm
- Powder coated alloy body
- Powered from host instrument via 5 way connector
- Compatible with all STS simulated meters and the Training Simulator Smart Interface.
- Detects STS LS1 and SS4 Simulants

	<p>DP6 Dual detector large probe</p> <ul style="list-style-type: none"> • 100cm² Large Area Probe with 2 detectors • 340 x 64 x 76mm • Powder coated alloy body • Powered from host instrument via 5 way connector • Compatible with all STS simulated meters and the Training Simulator Smart Interface. • Detects STS LS1 and SS4 Simulants
	<p>FHZ 732 Probe</p> <ul style="list-style-type: none"> • Pancake Probe • 150 x 50mm Dia • Plastic and aluminium body • For use with STS Thermo FH40 Dual Meter • Powered from host instrument via 4 way connector • Compatible with all STS simulated meters and the Training Simulator Smart Interface. • Detects STS LS1 and SS4 Simulants

Consumables for use with Contamination meters and probes

	<p>Box of 10 LS1</p> <ul style="list-style-type: none"> • STS Liquid simulated radiation Source • Pack of 10 35ml spray cans • Approx 200 applications per can • Shelf life of 5 years • Product completely evaporates to leave training area clear • Full MSDS supplied
	<p>Box of 10 SS4</p> <ul style="list-style-type: none"> • STS solid (granular) simulated radiation Source • Pack of 10 35ml cans • Approx 50 applications per can • Shelf life of 3 years • Product can be swept up after use to leave no trace • Full MSDS supplied

Simulated Radiation Survey Meters



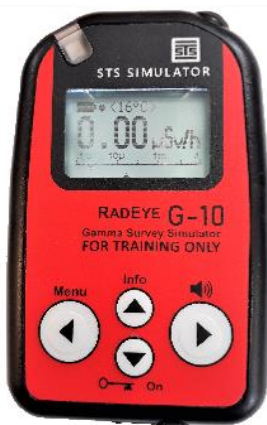
STS Survey-Safe Simulated Survey Meter

- 360° detection
- User selectable alarm threshold
- User selectable background level
- Led and Audible alarm
- Digital display with backlight
- Range ~15m
- Powered by 2AA cells
- Compatible with all sources and Networks with all other Safe series equipment up to 16 units.



STS Safe-FH40GL10 Survey Meter

- 360° detection
- User selectable alarm threshold
- User selectable background level
- Led and Audible alarm
- Digital display with backlight
- Range ~15m
- Powered by 2AA cells
- Can be used on Telepole with FHZ512 Probe
- Compatible with all sources and Networks with all other Safe series equipment up to 16 units.



Safe- Thermo RadEye G10 Survey Meter

- 0.5 μ Sv/h to 100mSv/h
- 360° detection
- Standard RadEye controls retained
- Led and Audible and vibration alarm
- Digital display with backlight
- Range ~15m
- Powered by 2 x AAA cells
- Compatible with all sources and Networks with all other Safe series equipment up to 16 units.



Safe- Thermo RadEye GF10 High range Survey Meter

- 5 $\mu\text{Sv/h}$ to 3Sv/h
- 360° detection
- Standard RadEye controls retained
- Led and Audible and vibration alarm
- Digital display with backlight
- Range ~15m
- Powered by 2 x AAA cells
- Compatible with all sources and Networks with all other Safe series equipment up to 16 units.



Safe Automess 6150AD Simulated Survey Meter

- 1 $\mu\text{Sv/h}$ to 999mSv/h
- 360° detection
- User selectable alarm threshold
- User selectable background level
- Led and Audible alarm
- Digital display with backlight
- Range ~15m
- Powered by 2 x AA cells
- Compatible with all sources and Networks with all other Safe series equipment up to 16 units.



Safe RDS30 Simulated Survey Meter

- 1 $\mu\text{Sv/h}$ to 75mSv/h
- 360° detection
- User selectable alarm thresholds
- Visual & Audible alarm
- Digital display with backlight
- Range ~15m
- Powered by 2 x AA cells
- Compatible with all sources and Networks with all other Safe series equipment up to 16 units.

Simulated Gamma Probes



Gamma Probe for FH40 Telepole

- Suitable for use with STS FH40 and FH40 Dual meters
- With Fischer connector suitable for connection to Thermo Telepole
- 170 x 48mm dia
- Plastic body with Aluminium connection housing
- Probe turns on automatically when connected to meter
- Power is supplied from host meter
- Compatible with all STS Safe series sources and may be networked with any other safe series equipment.
- Up to 16 devices may be networked and fielded simultaneously.



FHZ512 Simulated Gamma Probe

- Suitable for use with FH40 & FH40 Dual meters
- Standard 6 way Fischer connector (NOT suitable for Thermo telepole but may be used with STS Telepole)
- 150 x 48mm dia
- Plastic body
- Probe turns on automatically when connected to meter
- Power is supplied from host meter
- Compatible with all STS Safe series sources and may be networked with any other safe series equipment.
- Up to 16 devices may be networked and fielded simultaneously.

Simulated Dosimeters



Dosi-Safe Simulated Dosimeter

- Dose and Rate displays
- 1 user selectable rate alarm
- 2 user selectable dose alarms
- User selectable background level
- Led and Audible alarm
- Digital display with backlight
- Range ~15m
- Powered by 2 x AA cells
- Compatible with all Safe-Series sources and Networks with all other Safe series equipment up to 16 units in total.



Safe- EPD Simulated Dosimeter

- Dose and Rate displays
- 1 user selectable rate alarm
- 2 user selectable dose alarms
- User selectable alarm threshold
- User selectable background level
- Led and Audible alarm
- Digital display with backlight
- Range ~15m
- Powered by 2 x AA cells
- Compatible with all Safe-Series sources and Networks with all other Safe series equipment up to 16 units in total.

Portal Simulation



Safe- Portal Monitor

- Portal monitor simulation with fixed control box, portal detector and activated by MiniSource/Pocket source
- Control box features 80db Sounder
- Flashing Beacon activated on alarm trigger
- 10 levels to select detector sensitivity by rotary dial
- Range dependant on sensitivity selected
- Powered by supplied adapter 110-240V to 6V
- Compatible with all Safe-Series sources

Simulated Radiation Sources



Safe- MiniSource

- Small size 80x60x40mm
- 10 power levels to select field strength by rotary dial
- Field strength $\sim 0.5\mu\text{Sv/h}$ to 25mSv/h @ 1m
- Range $\sim 15\text{m}$
- Powered by 2 x AA cells -12hours+ lifetime
- Low battery /on led
- Compatible with all Safe-Series meters and Networks with all other Safe series equipment up to 16 units in total.



Safe- MiniSource Variable Remote Control

- Small size 80x60x40mm
- 8 power levels to select field strength by remote Control (remote range $\sim 50\text{m}$)
- Field strength $\sim 0.5\mu\text{Sv/h}$ to 25mSv/h @ 1m
- Range $\sim 15\text{m}$
- Powered by 2 x AA cells – 12hours+ lifetime
- Low battery /on led
- Compatible with all Safe-Series meters and Networks with all other Safe series equipment up to 16 units in total.



Safe- Pocket Source Variable

- Small size 105x65x24 – slim form suitable for hiding on people
- 10 power levels to select field strength by rotary dial
- $\sim 0.5\mu\text{Sv/h}$ to 25mSv/h @ 1m
- Range $\sim 15\text{m}$
- Powered by 2 x AA cells- 12hours+ lifetime
- Low battery /on led
- Compatible with all Safe-Series meters and Networks with all other Safe series equipment up to 16 units in total.