



PATSCANTM **STS**
POWERED BY SOTECH SECURE

**Explosive
& Chemical
Threat
Detection**



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MULTI-CHEMICAL THREAT DETECTION SENSOR

PROVIDING RELIABLE RESULTS

PATSCAN STS offers the most effective method for the detection, diagnosis and tracking of air-borne trace explosives, chemical warfare agents and volatile organics.

PATSCAN™ STS

PATSCAN STS proprietary technology is used to rapidly screen extremely complex samples and identify the concentration of chemicals through the use of tunable electronic signals.

PATSCAN STS sensors detect airborne trace chemicals with a parts-per-billion sensitivity.

This innovative approach allows detection, diagnosis and tracking of trace explosives, chemical warfare agents and volatile organics.

PATSCAN STS Sensor Operation:

Phase 1: Small trigger bias voltage applied to device sensor

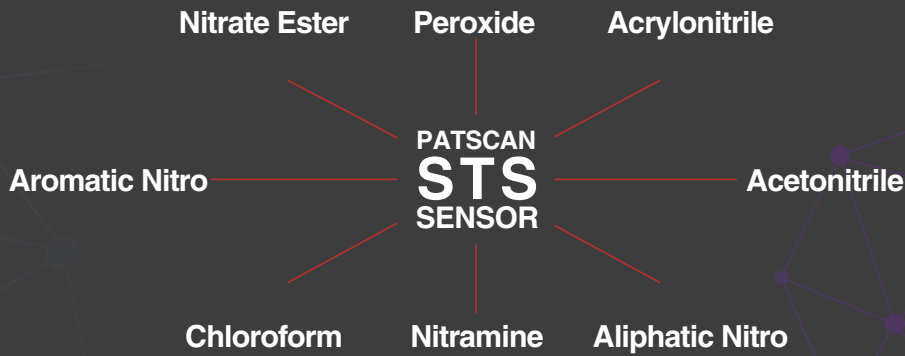
Phase 2: Regenerative nano-textured sensing element activates

Phase 3: Interaction of trace elements produces change in measured output which triggers alarm.

Phase 4: Sensor element resets with application of reset voltage.



Explosive & Chemical Threat Detection



PRODUCT SPECIFICATIONS

SIZE	6" L x 3" W x 2" D
POWER	3.7 Volt LIPO Battery and low-power electronics
CONNECTIVITY	USB and Ethernet
OPERATING TEMPERATURE	0° C to 100° C
CHEMICAL DETECTION	Acrylonitrile, Acetonitrile, Chloroform, Aliphatic Nitro, Aromatic Nitro, Nitramine, Nitrate Ester, Peroxide



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