

NEXT GENERATION OF NETWORKED SMART CONTAINERS

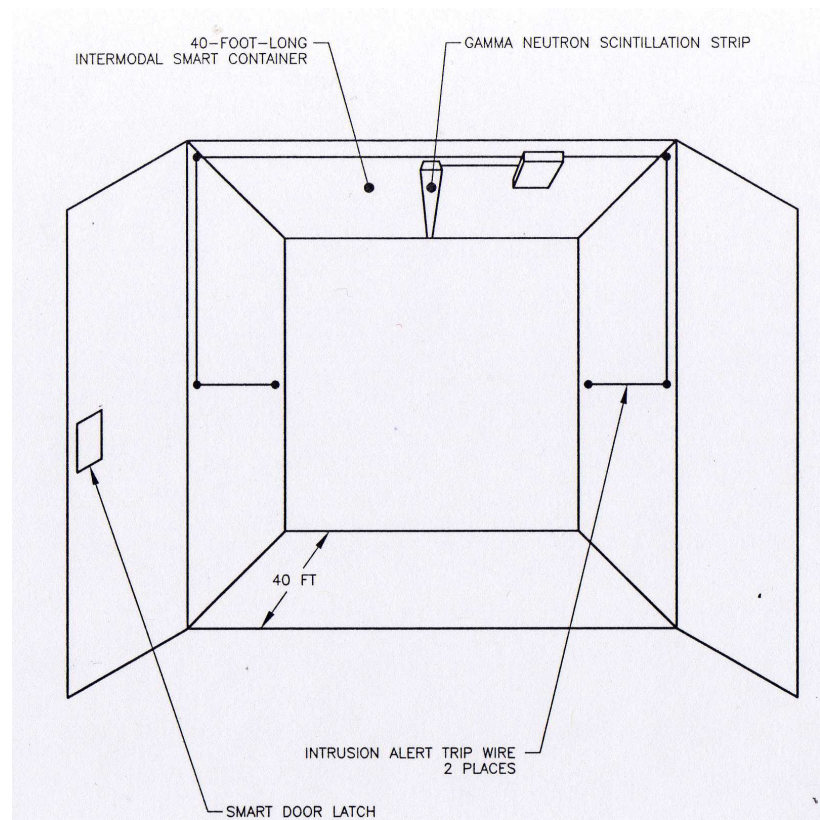
Model- SMRT-CON-1

Are Dirty Bombs or Nuclear Explosives or other Weapons of Mass Destruction

Sailing to your Seaport?

FEATURES:

- DETECT CONTAINERS CARRYING NUCLEAR MATERIALS
 - TRACK MOVEMENT.
 - PLACE DETECTORS IN SMART CONTAINERS OR LEGACY CONTAINERS SERIAL OR ETHERNET BASED ALARM AND DATA COLLECTION
 - LONG VOYAGE ALLOWS HIGH SENSITIVITY RESULTS FORM INEXPENSIVE DETECTORS
 - SEPARATION OF MEDICAL, HIGH GAMMA AND ATOM BOMB MATERIAL
 - SENSITIVE - 1μ R/hr RESOLUTION
 - RUGGED, SPLASH PROOF
 - WIDE RANGE
 - CONNECTS TO YOUR EXISTING WINDOWS or LINUX NETWORK
 - CAN BE SET TO ALLOW INTERNET ACCESS FROM REMOTE SITES
 - USER SETTABLE ALARM LEVELS
 - THIN FORMAT
- NO LOSS OF CARGO SPACE



Who benefits: Police and Security Department need to know what hazardous radioactive materials are entering, transiting or detonating and dispersing within your perimeter.

TA TECHNICAL ASSOCIATES

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SMART CONTAINERS RADIATION TRACKING SYSTEM

Model- SMRT-CON-1

When and why are security personnel interested in radiation levels and other data? Three time periods **Baseline time period:** Baseline mapping: Background varies from place to place, due to natural causes, and old pollution and uranium and potassium in road and building materials. **Prior to Detonation:** The terrorist moves radioactive materials into an area, for storage or pre-positioning a dirty bomb or nuclear bomb. **After Detonation:** An accident, or a dirty bomb explosion releases large amounts of radioactive material in solid, liquid or airborne form.

HAZARD SENSOR	NUCLEAR BETA-GAMMA	NUCLEAR NEUTRON	BIOLOGICAL	CHEMICAL	EXPLOSIVES	INTRUSION ALARMS
Interpretation	Dirty Bomb	Nuclear Bomb	Active Organisms	Toxic Chemicals	Conventional Bomb or Ordinance	Unauthorized Container Breach

APPLICATION: Each detector node in the **SMRT-CON-1** Precision Radiation Proximity analyzer system is small with unprecedented sensitivity and accuracy. The **SMRT-CON-1** is designed specifically for use to give warning in case of illicit or accidental container becomes a transport of radioactive and fissile material. Suitable uses are for Seaports and shipment centers both in USA and overseas. Also for truck fleets and rail-cars and at customs entry and exit points. Unprecedented sensitivity sea transports.



SMRT-CON-1

REASON FOR NEUTRON DETECTION: Some fissile materials have only WEAK gamma emissions which are hard to detect. These materials also have spontaneous neutron emissions. Detection of even a few neutrons is significant since the natural background neutron count rate is ZERO. When the neutron indicator comes on, we know that neutrons from fissile material are present.

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GENERAL DESCRIPTION: Neutron monitor and 40 ft. long gamma sensor alarms on radiation level settable down to background level. The **SMRT-CON-1** can alarm at any of 99 preset levels. It also accurately measures exposure rate. The dose rate can be displayed on a local **LCD** display. When the alarm set-point is reached, the alarm relay is triggered. The **SMRT-CON-1** circuitry are completely digital.

This system can be installed in **SMART CONTAINERS** or **LEGACY CONTAINERS**, as well as trucks or railcars.

OUTPUTS:

- (1) Alarm relay for customer use
- (2) Serial (RS-232) data output
- (3) (optional) ETHERNET NODE - complete with its own IP Address.
- (4) (optional) EMBEDDED SENSOR NETWORK communications

AVAILABLE CONTAINERS AND CARGO SCANNERS

Detects HAZARDOUS MATERIALS during Sea-voyage	Model SMART-CON1
Drive-by Style	Model RAD-7 CANSCAN
FAST-CRANE MOUNTED	Model RAD-10 CANSCAN
RAD MAPPING	Model RAD-20 CANSCAN
RAD detector for loose cargo	Model – GRAPPLE- SCAN-GR

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