

Operational description

The Container Security Transponder operates in the UHF 433.92 MHz band. It is designed to be attached to a container door.

The Transponder has intrusion and environmental sensors that include:

- Door Breach sensor: for monitoring illegal opening of container doors.
- Light Intrusion: Monitors illumination events inside the container.
- Temperature: Monitors Temperature inside container.
- Humidity: Monitors humidity inside container.
- Shock sensor: monitors extreme behavior of container.

All the sensors include indications for activation/deactivation and alarm status.

The indicators colors are:

- Green color designates all normal condition.
- Red color – indicates an alarm event occurred.

Each sensor has threshold values – that may be configured by the control software.

The Transponder is battery powered device, and responds to status requisitions from a nearby interrogator – located up 300 ft. from the transponder.

Control of Transponder's features and parameters is facilitated by control software. Access control may be achieved either via an interrogator or directly by USB connection to control PC.