

## Operational description

The Sensor Transponder operates in the 433.92 MHz UHF band.

The Transponder has environmental sensors that include:

- Temperature sensor: Monitors Temperature inside container.
- Humidity sensor: Monitors humidity inside 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.

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

A LED test button facilitates validation of sensor status.

The Transponder is battery powered, and responds to status requisitions from a nearby

interrogator – located up 100m from the transponder.

Control of Transponder's features and parameters is facilitated by control software.

Access control may be achieved either via an interrogator unit or directly by USB connection to a control PC.