

Communication

Long-range:

- Satellite-based network: IRIDIUM Short-Burst-data transmission (up to 340 Data per Message)
- Ground-based cellular network: (Quad-Band GSM): Short-Message-Service (up to 140 Data per Message)

Short-range

- Bluetooth (class 2) data transmission from portable handheld device (e.g. Smartphone, Palmtop) to ACSD.

Sensor Module Performances:

- 2 x external temperature range: -40°C to +120°C
- Container interior temp. range: -25°C to +60°C
- Container interior humidity range: 0 -100% condensing

Physical

Size: W x L x H / weight:

- ACSD Module: 7.1 x 6.1 x 8.5 in / 7.5lbs
- Battery Pack: 3.9 x 8.6 x 3.5 in / 5.1lbs

Electrical

- Battery life : >2 months (1 SatCom message/every 2h)

ACSD Features

- Robust design to prevent dust and spray water contamination
- Assembly: The ACSD is easily mounted manually within 5sec. w/o extra tools to the left-side container door

Sensors

- Battery Voltage Surveillance
- Light- & Door sensors for dooropening
- Motion sensors for presence of humans: PIR sensor incl. fresnellens (coverage 100°; 12 ft)
- Positioning: GPS Receiver (accuracy: < 33 ft)
- Further Sensors upon request (e.g. shock, air pressure, gas)

Environmental

- Operating Temperature: -25°C to +60°C
- Storage Temperature: -25°C to +60°C
- Humidity: 100%
- Sealing: minimum IP54
- Durability: 6.6 ft drop to concrete (max. 6 times)