Experience the power of control

SmartPoint devices are the ears and eyes in the SmartLine wireless network. The SmartPoint T/ERS is ideally suited to monitor the opening and closing of doors that give access to refrigerated areas. SmartPoint T/ERS can also be used to enrich security systems, by monitoring all doors and windows to the building.

Key Features SmartPoint T/ERS (Temperature/External reed sensor)

- **High data security on a worldwide permitted communication frequency**
  IEEE 802.15.4 PHY compliant 2.4 GHz Radio, Standardised and license free, worldwide.

- **One device - two sensors**
  The SmartPoint T/ERS combines an internal and external temperature sensor. SmartView also gives you the opportunity to access and analyse your data 24 hours a day, 7 days a week. All-in-one: on one platform, from one provider.

- **Robust**
  The SmartPoint T/ERS is extremely robust and easy to install.

- **Automated logging & flushing**
  With its 2 MB internal data storage, the SmartPoint T/ERS logs all sensor readings and automatically flushes its log in case of temporary connection loss, offering a high degree of reliability.

High data security on a worldwide permitted communication frequency

Robust housing design

Customized set up and service packages fo your cold chain
## Technical Specification

### SmartPoint T
- **Description:** Wireless temperature datalogger
- **Typical Application Area:** Facility management / National and International Supply Chain / Storage conditions / Airfreight monitoring
- **Physical Specifications**:
  - **Size (L x W x H):** 68 x 65 x 16 mm
  - **Weight:** 51 g
  - **Protection Class:** IP55
  - **External Sensor Cable Length:** 1 m +/- 5 %
  - **Operating Condition - Temperature:** –40°C to +85°C
- **Technical Specification**:
  - **Battery Type:** Lithium Thionyl Chloride
  - **Cells:** 2
  - **Temperature Accuracy:** ± 1.0°C from –40°C to 0°C
  - **Reed Contact:** Yes
  - **Relative Air Humidity Accuracy:** ± 2.0 %RH
- **Compliance:**
  - **EUROPE:** CE (RED)
  - **NORTH AMERICA:** FCC, IC

### SmartPoint T/H
- **Description:** Wireless temperature and humidity datalogger
- **Typical Application Area:** Facility management / National and International Supply Chain / Storage conditions / Airfreight monitoring
- **Physical Specifications**:
  - **Size (L x W x H):** 68 x 65 x 16 mm
  - **Weight:** 51 g
  - **Protection Class:** IP55
  - **External Sensor Cable Length:** 1 m +/- 5 %
  - **Operating Condition - Temperature:** –40°C to +85°C
- **Technical Specification**:
  - **Battery Type:** Lithium Thionyl Chloride
  - **Cells:** 2
  - **Temperature Accuracy:** ± 1.0°C from –40°C to 0°C
  - **Relative Humidity Accuracy:** ± 4 %RH
- **Compliance:**
  - **EUROPE:** CE (RED)
  - **NORTH AMERICA:** FCC, IC

### SmartPoint T/W
- **Description:** Wireless temperature datalogger with external sensor
- **Typical Application Area:** Facility management / National and International Supply Chain / Storage conditions / Airfreight monitoring
- **Physical Specifications**:
  - **Size (L x W x H):** 68 x 65 x 16 mm
  - **Weight:** 73 g
  - **Protection Class:** IP55
  - **External Sensor Cable Length:** 0.5 m +/- 5 %
  - **Operating Condition - Temperature:** –40°C to +85°C
- **Technical Specification**:
  - **Battery Type:** Lithium Thionyl Chloride
  - **Cells:** 2
  - **Temperature Accuracy:** ± 0.5°C from –10°C to +85°C
  - **Reed Contact:** Yes
  - **Relative Humidity Accuracy:** ± 2.0 %RH
- **Compliance:**
  - **EUROPE:** CE (RED)
  - **NORTH AMERICA:** FCC, IC

### SmartPoint T/ERS
- **Description:** Wireless temperature datalogger with external reed sensor
- **Typical Application Area:** Facility management / National and International Supply Chain / Storage conditions / Airfreight monitoring
- **Physical Specifications**:
  - **Size (L x W x H):** 68 x 65 x 16 mm
  - **Weight:** 62 g
  - **Protection Class:** IP55
  - **External Sensor Cable Length:** 0.5 m +/- 5 %
  - **Operating Condition - Temperature:** –40°C to +85°C
- **Technical Specification**:
  - **Battery Type:** Lithium Thionyl Chloride
  - **Cells:** 2
  - **Temperature Accuracy:** ± 1.0°C from –40°C to 0°C
  - **Reed Contact:** Yes
  - **Relative Humidity Accuracy:** ± 2.0 %RH
- **Compliance:**
  - **EUROPE:** CE (RED)
  - **NORTH AMERICA:** FCC, IC

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*Extreme low or high temperature can impact the battery life.*

Warranty: 1 year from date of delivery, excl. battery (see general Berlinger Terms & Conditions)

Subject to change. Please note that all information in this document is correct at the time of publication. Due to our policy of continuous product development, we reserve the right to change this information without prior notice. For more information download the whole user manual [www.berlinger.com/user-manuals](http://www.berlinger.com/user-manuals).
Quick facts
Berlinger SmartView is the leading ‘sense and respond’ solution for global cold chain management. Proven to deliver significant benefits to manufacturers, logistics service providers and wholesalers in the global pharmaceutical and food supply chain.

Berlinger SmartView provides an integrated real-time view on the condition and location of temperature-sensitive products. Data is collected in an open platform from a variety of sources, including advanced GPS/GPRS and wireless sensors.

With the application of user-defined business rules we enable pro-active intervention to respond to exceptional situations.

Solution overview
The Berlinger SmartView platform is an integrated platform for the following cold chain applications:

- **Shipment monitoring:** Monitoring the condition and location of shipments during global and local transportation.
- **Facility monitoring:** Real-time remote monitoring of temperature-controlled storage facilities.
- **Vehicle monitoring:** Real-time tracking of transportation vehicles.

Benefits
The level of supply chain visibility created by Berlinger SmartView significantly reduces the number of exceptional situations and improves the ability to pro-actively respond to these situations.

- **Improved product integrity** due to better supply chain control and pro-active response to exceptional situations.
- **Improved process efficiency** due to integrated data and less time spent analyzing exceptional situations.
- **Improved customer service** due to better supply chain visibility and a reduction in exceptional situations.
- **Easy reporting and analysing** for continuous process improvements due to central and integrated view external sources such as flight traffic data.

Berlinger SmartView consists of the following application layers

- **Cold Chain Analytics:** Berlinger SmartView creates a complete history of your shipments, which can be used for trade lane analysis and thermal mapping.
- **Cold Chain Execution:** An advanced rules engine allows users to define business rules for exceptional situations. These rules create capabilities for pro-active intervention.
- **Cold Chain Visibility:** Berlinger SmartView collects data from various sources. This includes real-time sensors with GPRS and wireless communication, and external sources such as flight traffic data.