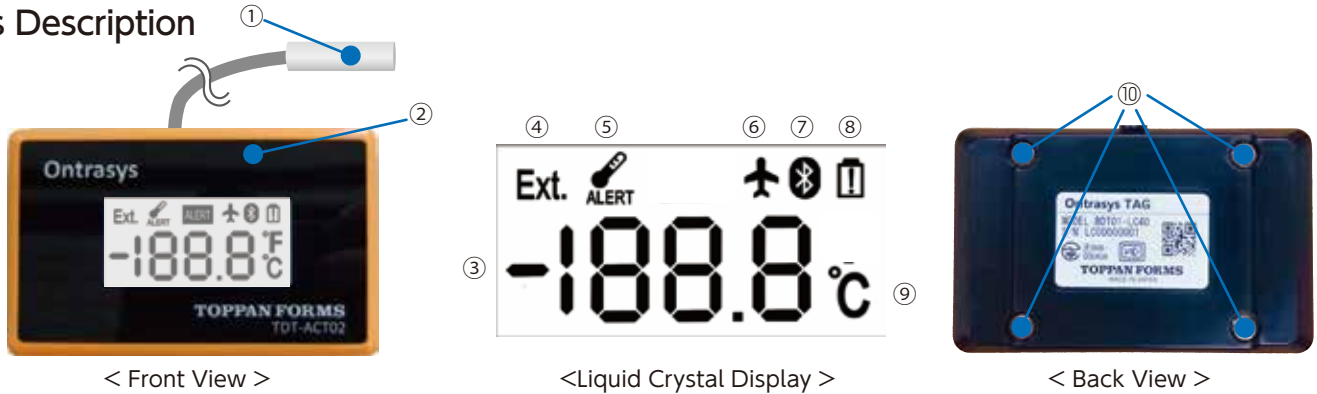


## ○Package content

- Ontrasys TAG (with external temperature sensor)
- Two alkaline AAA batteries (inside the product)
- Operation manual (this document)

## ○Parts Description



- ① External temperature sensor (BDT01-LC40:Semiconductor sensor / BDT01LC196:Platinum sensor) ② LED  
 ③ Temperature display ④ External temperature ⑤ Alert ⑥ Airplane mode ⑦ Usual mode ⑧ Low battery alert  
 ⑨ °C ⑩ Mounting screws

## ○Features

This product has two communication ways: BLE and NFC, which can correspond with several systems. If you use BLE, you can send a signal to all products automatically by radio. And if you use NFC, you can send a signal to an individual product reliably.

Also, Ontrasys TAG has an airplane mode, you can attach it to goods sent by air. (Certification RTCA/Do-160G Sec21.5 CategorH)



## ○Application

Please install the “Ontrasys Lite” by accessing the following.

**Android : Play Store iOS : App Store**

## ○Battery Replacement

When the symbol “” appears, the battery needs to be replaced.

Please send Ontrasys TAG to our company (for a fee), or you can replace the battery by using the “battery replacement kit”.

### ※Notice

If you replace the battery with the battery replacement kit, the water proof ability will be lower than IP64.

## ○Specifications

Model number	BDT01-LC40	BDT01LC196
Dimensions/Weight	94.0×59.0×15.3mm / About 45g (except battery) / Sensor cable:About 1m	
Battery	Two alkaline AAA batteries	
Battery Life	over 1 year (depends on usage)	
Memory	4096 data	
Accuracy	±0.5°C:0°C to 65°C ±1.0°C:other range	Internal sensor ±0.5°C:0°C to 65°C, ±1.0°C:other range External sensor ±0.3°C+3% of reading
Channel	Internal temperature:1CH External temperature:1CH	
Range	Internal:-20°C~70°C External:-40°C~80°C	Internal:-20°C~70°C External:-196°C~199°C"
Connection	NFC ※1, Bluetooth4.0(Bluetooth low energy)	
Necessary specifications of connection terminal	over Bluetooth4.0	
Recommended terminal OS specifications	over Android5.0 / over iOS8.0	

※1 The NFC transmitter is a slave device.

The specifications shown on the above may be changed without prior notice.

Applications・Specifications etc.  
Please see the Web site for detail.



<https://www.toppa-f.co.jp/mechacool/ontrasys/>



## TOPPAN FORMS CO., LTD.

1-7-3 Higashishinbashi, Minato-ku, Tokyo  
 105-8311, Japan  
 Business product department  
 TEL. 03-6253-5705

## ○For safety

We notify the precautions for safe and correct use to prevent harm to customers and others and damage to property. Be sure to observe these instructions when using the product.















## Meaning of the warning display

 <b>Warning</b>	If you don't observe this caution mark, it may cause death or severe injury.
 <b>Attention</b>	If you don't observe this caution mark, you may be injured or things may be damaged.

## Meaning of the Mark

 Warning · Attention	 Prohibited actions	 Actions needed to be taken
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## **Warning** To prevent serious accidents

-  Do not convert, repair the device.
-  Do not store the device in chemicals or organic gas environment. The device may become eroded. In addition, it may cause harm to users body due to the hazardous substances attached to the product.
-  Do not replace the battery with wet hands.
-  This device is designed for general public welfare, industrial use. Please do not use as medical equipment or systems which require a high level of safety.
-  Do not drop the device. Do not expose it to heavy shock.
-  Do not cut the external temperature sensor. Do not twist, pull, shake, and bend it.
-  To prevent data loss by static electricity, be sure to touch the nearby metals and remove the body's static electricity prior to handling the product.
-  Store the device out of the reach of children.
-  We do not take responsibility or liability for any damage or loss caused through our device and service.
-  Do not use other temperature sensors.
-  Stop using the device immediately in the event of any abnormalities such as heat generation, smoke emission, unusual odor, or strange sound.
-  Replace the battery with a new one every year because it may leak or drip. In addition, replace the packing together because the water-proof packing may be inferior.
-  The case may crack due to contact with oil. If the product is used in a place where oil scatters, please cover the product with a polyethylene bag or the like.
-  The battery should be replaced with two new alkaline AA4 batteries at the same time. If the +- of the battery is reversed, not only will the device not work normally but also might be broken.

## **Attention** Places not suitable for storage

- Places exposed to direct sunlight
- Places at risk of wetness
- Places easy to become hot
- Places with much smoke and dust
- Places around fires and heaters
- Humid places that are susceptible to condensation
- Places with vibrations
- Places with static electricity
- Places with strong magnetic forces

## **Attention** Others

- Please protect the operating environment of this product and do not use it for any purpose other than the intended purpose.
- We will not assume responsibility for any damage suffered by customers, users, or third parties as a result of the failed communication due to the operation.
- This instruction may not be reproduced or altered without permission from TOPPAN FORMS CO., LTD. Unauthorized copying of part or all of the contents of this manual is prohibited.
- This manual may be changed without prior notice to improvement.
- Please contact us if you have any points to notice.

## ○Attention for Radio wave law

This product has certification of construction type of specified low-power radio equipment. Be sure to follow the following points.

- Do not disassemble or remodel this device. Disassembly / modification are prohibited by law.
- Do not remove the label of construction type certification. Non-labeling is prohibited.

## About the Radio of Bluetooth low energy

In use frequency bands of this product has many users, for example, industrial, scientific, and medical equipment, mobile identification radio stations that require licenses to be used by other similar radio stations, specified low power radio stations that do not require licenses, and amateur radio stations.

If a local radio station for mobile identification, a specified low-power radio station, or an amateur radio station is operated near this product, communication speed may decrease or communication error may occur. Bluetooth® is a registered mark of Bluetooth SIG, Inc.

## ○About airborne

RTCA is an abbreviation of "Radio Technical for Aeronautics". That is the technical standard for electric wave interference in the field of environmental examination. In the field of current environmental examination, RTCA DO-160D is almost an international standard. So, it's necessary for the electronic equipment to satisfy the environmental examination standard whether it is brought into the passenger seating area or the cargo bay.

Because this product is authorized by RTCA/Do-160G Sec21.5 CategorH, you can put it on a plane TEST REPORT can be confirmed as follows.

<https://www.toppan-f.co.jp/mechacool/ontrasys/>

We received approval for airborne usage from Japan Airlines Co., Ltd. and All Nippon Airways Co., Ltd.. However, when loading, please contact the airline.

## ○Federal Communications Commission (FCC) Statement 15.105(b)

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation.

This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

### 15.19

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

- 1) This device may not cause harmful interference and
- 2) This device must accept any interference received, including interference that may cause undesired operation of the device.

### 15.21

You are cautioned that changes or modifications not expressly approved by the part responsible for compliance could void the user's authority to operate the equipment.

## FCC RF Radiation Exposure Statement:

1. This Transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.
2. This equipment complies with FCC RF radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with a minimum distance of 20 cm between the radiator and your body.