

Simultaneous, multipoint monitoring measurement

[Temperature & humidity history recording system]

ThermoLeaf

Made in Japan

Small, lightweight Automatic recording



W34 x H54 x D10mm
18g (including battery)

1box : 5units

Easy-to-operate
Software & Reader

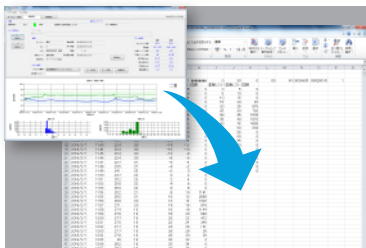
Can be edited
with Excel

Waterproof

Dust cannot get inside. Internal mechanism not flooded even if ThermoLeaf is immersed in water at a depth of 1m for 30minutes.



Data can be transferred to PC by only holding ThermoLeaf over the reader.
*Reader: Optional



Software anyone can easily use
Data can be processed with Excel.



<IP67>

*IP standard:
Standard of protection class set up by IEC (International Electrotechnical Commission) and JIS (Japanese Industrial Standard)
<IP67> • IP : Ingress Protection
• 6 : Dustproof (No penetration of dust)
• 7 : Waterproof (No water getting in when immersed at water depth of 1m for 30minutes)

Ideal for recording history of temperature and humidity at many points at same time



Measurement of temperature and humidity in greenhouse



Environmental research



Temperature control in container vehicle during transportation



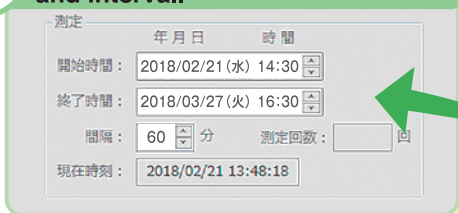
Quality management, etc.

FeliCa system employed for transferring data from ThermoLeaf

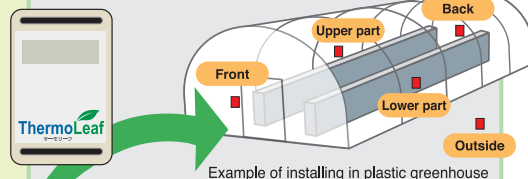
All you have to do is to hold ThermoLeaf over a reader for IC tickets or electronic money.

■Preparation:
The application software of ThermoLeaf and FeliCa reader must be installed on a Windows computer.

1 Put ThermoLeaf on reader. Set measurement start time and interval.



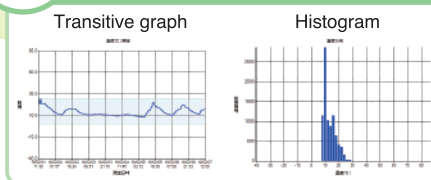
2 Install ThermoLeaf. Temperature and humidity will automatically be recorded by a timer.



5 Data can be converted into an Excel file.





4 Measured data display



3 Put ThermoLeaf on reader to send measured data to the PC.



Product specifications

Product name	ThermoLeaf (5 units as set)	
Appearance	 Front	 Back
	W34 × H54 × D10 mm 18 g (including battery)	
Item to be measured	Temperature	Humidity
Measurement range (Operating environment)	-40°C to +80°C	0% RH to 99% RH, without condensation (Temperature at which humidity can be measured: 5°C to 45°C)
Measurement accuracy Note 1	±0.3°C (-10°C to +50°C) ±0.5°C (outside of above range)	±5% RH (Capacity-type sensor) Note 2
Resolution	0.1°C	0.1% RH
Data recording capacity	16,000 data	16,000 data
Measurement interval	1 to 255 minutes (can be set in 1-minute units.)	
Measurement recording method	One-stop/Overwrite (loop)	
Battery	CR2025 (available at general store and can be replaced by user) Note 3	
Battery life	About one year (at normal temperature) Note 4	
Waterproof performance	IP67 (Not flooded when immersed at water depth of 1 m for 30 minutes)	
Data transfer	NFC (FeliCa) Note 5	
Supported personal computer	Japanese-version Windows/CPU: Pentium 200 MHz Note 6	
Supported OS	Microsoft Windows 7/8/10	

- Note 1. Measured value is calibrated with Vaisala's HM70 as the reference.
 Note 2. The life (accuracy) of the humidity sensor varies depending on the usage and operating environment. (It substantially varies at an extremely high or low temperature.)
 Note 3. Be sure to use batteries from reliable manufacturers. (Initially loaded battery: Panasonic's)
 Note 4. The battery life varies depending on the measurement environment, number of measurements, and number of communications.
 Note 5. FeliCa is a registered trademark of Sony Corp.
 Note 6. Windows is a registered trademark of Microsoft Corporation in the U.S.

[Notice] Specifications and shape may be changed without notice due to improvement.

Product outline

Data recorded by ThermoLeaf can be read through wireless communication using the FeliCa system.
 Sony Corp.'s genuine product conforming to the FeliCa communication standard is employed as the reader (optional).


The following three are needed for use:

- Reader for ThermoLeaf (optional)
- Application software of ThermoLeaf (can be downloaded from HP of ThermoLeaf.)
- Application software of reader (can be downloaded from the HP of Sony Corp.)

Recording time depending on measurement interval (standard)
 Number of data that can be recorded: 16,000

Measurement interval	Measurement duration
Can be set in 1-minute units.	Measurement of only temperature or simultaneous measurement of temperature and humidity
1 minute	266 hours (about 11 days)
10 minutes	2,666 hours (about 111 days)
30 minutes	8,000 hours (about 333 days)
60 minutes	Battery life: About 1 year
255 minutes (max.)	

Information shown on LCD

REC	Record: Lights during measurement recording.	
BAT	Lights when battery life is close to end. Usually remains dark.	
ALM	Alarm: Lights if an abnormal value is detected.	

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