

Remote Monitoring System & Service

L..eye[®]

Cumulative installed capacity
No.1
Photovoltaic remote monitoring system

Source: FUJI KEIZAI CO., LTD. FIT • Renewable Energy Power Generation System • Service Market, Fact-finding survey of market players 2019 Solar power generation remote monitoring service, FY2018 Forecast

FY2022 Number of installations
No.1
In all capacity ranges
Photovoltaic remote monitoring system

Source: FUJI KEIZAI CO., LTD. 2023 Solar Battery Technology and Market Status and Future Outlook, Number of Remote Monitoring System Installations, FY2022 Results

Installed capacity of remote monitoring system*

21.4_{GW} / 86,000

Number of installations of remote monitoring system*

*As of September 2024
*Achievements in Japan


Low price


High Functionality



Acquired ECHONET Lite and AIF certification for smart meters (low and high voltage)
*Japanese standard

The information in this catalog is current as of November 2024. Specifications are subject to change without notice.

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34 years of track record and trust

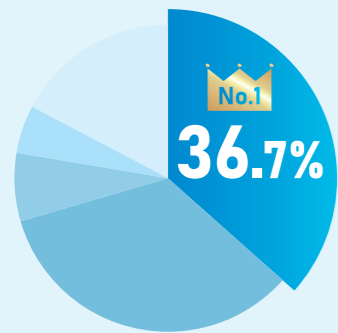
In the 34 years since our founding, we have delivered 86,000 monitoring systems throughout Japan. Our reliable product development technology and post-delivery support have made many of our customers feel secure in using our products.

FY2022 Remote monitoring system

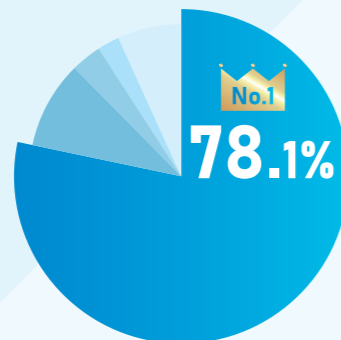
Maker Share

*Achievements in Japan

Low voltage



High voltage Extra high voltage



Source: FUJI KEIZAI CO., LTD. 2023 Solar Battery Technology and Market Status and Future Outlook, Number of Remote Monitoring System Installations, FY2022 Results



Source: FUJI KEIZAI CO., LTD. FIT • Renewable Energy Power Generation System • Service Market, Fact-finding survey of market players 2019 Solar power generation remote monitoring service, FY2018 Forecast

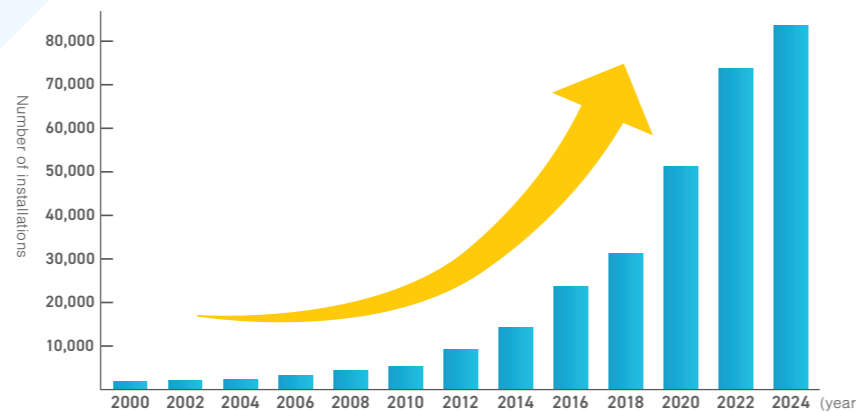
Installed capacity of remote monitoring system

21.4GW

Number of installations of remote monitoring system

86,000

*As of September 2024
*Achievements in Japan



Why remote monitoring is needed

1 For stable operation of power plants

If left unchecked over time or due to the effects of nature, a photovoltaic system can significantly degrade its power generation performance. L·eye will not overlook any trouble in power generation facilities through precise monitoring and detailed power generation diagnosis. In the event of an abnormality, prompt notification minimizes losses due to reduced power generation or power outages, and ensures income from electricity sales.

2 Maintenance of asset values

In the solar secondary market, maintenance data is essential to maintaining asset values. L·eye can keep detailed data on “electricity sales performance” and “maintenance and inspections” *, which have a significant impact on assessments and help prove asset value.

High functionality and low prices

Detailed monitoring of each inverter and each string by inverter communication method

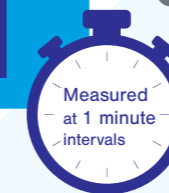
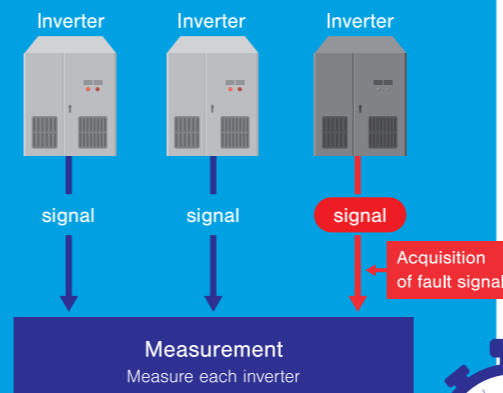
The inverter communication method is used to detect abnormalities by grasping the amount of electricity generated by each inverter and each string. It is also possible to acquire fault signals for each inverter, which is not possible with the CT method, and is useful for early restoration.



Inverter communication method

Measurements are taken for each inverter to determine which inverter is faulty.

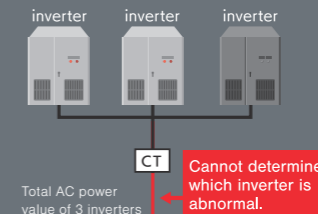
Our Inverter communication method



CT measurement

With the CT method, we do not know which inverter is at fault.

Other company's CT method



Measurement
Total inverter measured

| Inverter communication method | CT |
|---|-----|
| Amount of DC power | ○ × |
| AC electric energy | ○ ○ |
| DC and AC voltage | ○ × |
| *Inverter fault Information | ○ × |
| *Inverter status (Power generation stopped) | ○ × |
| *Measurement in inverter units | ○ × |
| Measurement accuracy | ○ △ |
| Output control | ○ × |

*Inverter of each unit

If failure is not noticed for 1 month
Loss of approximately 100,000 yen

*Assuming that one inverter generates 99kWh of electricity per day and the fixed price excluding tax is 36 yen.

Low price realized

Accumulated expertise

Development costs were reduced by taking advantage of the remote monitoring technology and expertise we have cultivated over the years. The increase in the number of units shipped has enabled us to further reduce the price.



Integrated measuring machine and router

By incorporating router functions into the measuring machine, equipment costs are reduced while maintaining the same functionality.



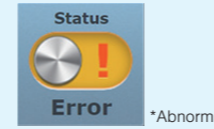
Basic information such as site status, current power generation, today's power generation, weather, solar radiation intensity, temperature, daily graphs, and power generation status by inverter can be viewed.

L-eye system dashboard

The dashboard displays the following information:

- System Dashboard:** Laplace Megasolar, Updated 2023/02/28 17:22. Includes a 'New Notifications' alert.
- Current Generation:** 2.5 kW
- Energy Today:** 415 kWh
- Energy Lifetime:** 293,687 kWh
- Current Weather:** Irradiance 0.02 kW/m², Temperature 10.1 °C. Status: Normal.
- Functions:** Graph, Data Display, Data Download, System Error Log, Camera Image Review, Live Camera, Report List.
- Performance Analyzer:** Irradiance Diagnosis, Output Rate Diagnosis, Aging Indicator.
- Inverter Information:** Detailed Information, Inverter Error Log. Shows PCS1 through PCS8 with current power and inverter status (Normal).
- DC power (kW):** 0.0, **Total power generated (kW):** 240.0
- Weather Information:** 07/01 and 07/02 forecast with temperature and precipitation data.

You can see the operation status of the entire site.

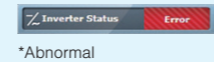


Measurement data can be downloaded in CSV format.

Control Ratio
Control rate of inverter

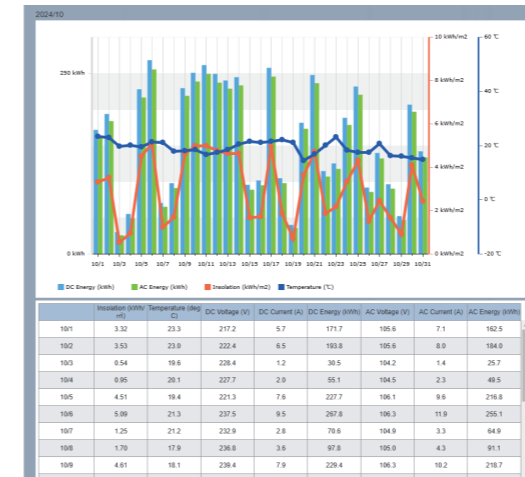
Rated Ratio
Ratio of power generation to rated capacity per inverter

You can see the operation status of each inverter.



2 Data display

Data on power generation, solar radiation, temperature, and scheduled control rate can be viewed in graphs and reports.



5 List of inverter status

The current values of voltage, current, and power of each inverter, daily total of generated power, control rate of output control, rated ratio, and operation status can be checked.

| Hour | DC Voltage (V) | AC Voltage (V) | DC Current (A) | AC Current (A) | DC Power (kW) | AC Power (kW) | Energy Today (kWh) | Current Status |
|--------|----------------|----------------|----------------|----------------|---------------|---------------|--------------------|----------------|
| 204.8 | 105.5 | 14.1 | 16.6 | 3.8 | 3.6 | 7.8 | Normal | |
| Normal | Normal | | | | | | | |

3 List of records

It can register information necessary for site management and is useful for maintenance records.

| Title | Status | Date and Time | Person in charge | Detail | Add | Delete |
|----------|--------|---------------------|------------------|--------|-----|--------|
| メンテナンス記録 | 解決 | 2016/02/10 10:28:00 | ラサス | Detail | Add | Delete |
| メンテナンス記録 | 対応中 | 2016/02/10 10:25:00 | ラサス | Detail | Add | Delete |
| メンテナンス記録 | 新規 | 2016/02/10 09:25:00 | ラサス | Detail | Add | Delete |

4 System error log

The history of failures and recoveries between measurement devices and servers can be checked and downloaded in CSV format. E-mail notifications can also be sent in the event of a failure.

| Date and Time | Site Number | Description | Status |
|---------------------|-------------|-------------|--------|
| 2014/05/23 15:36:00 | 1 | 更新停止検出 | 発生 |
| 2014/05/23 15:36:00 | 2 | 更新停止検出 | 発生 |
| 2014/05/23 15:36:00 | 3 | 更新停止検出 | 発生 |

6 Inverter error log

Check inverter failure and recovery history. It can also be downloaded in CSV format. E-mail notification can also be sent in the event of an inverter failure.

| Date and Time | Inverter | Site Number | Error Code | Description | Status |
|---------------------|----------|-------------|------------|-------------|--------|
| 2019/08/02 17:51:43 | PCS1 | 1 | UF218 | 系統維持不足電圧 | 復帰 |
| 2019/08/02 17:51:35 | PCS1 | 1 | UF221 | 電圧位相故障 | 復帰 |
| 2019/08/02 17:51:33 | PCS1 | 1 | UF218 | 系統維持不足電圧 | 発生 |
| 2019/08/02 17:51:33 | PCS1 | 1 | UF221 | 電圧位相故障 | 発生 |

7 Flexible area

An area with the ability to add or delete any measurements you wish to display, and to lay them out freely.

e.g. Create an item to display the total power generated by each module placement area

Numeric Item Settings

Name: Total power generation in section A (kW)

Channels: Measured Value

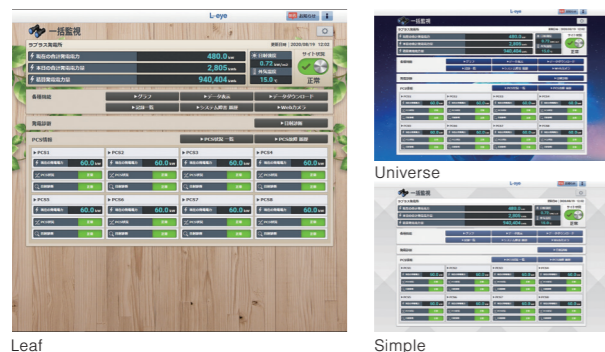
Interval: Formula

No. of Decimal Places: 1

Formula: Total power generation of PCS1 and 2 + Total power generation of PCS3 and 4 + Power sales amount of PCS1

Change screen design

Three new patterns have been added to the design of the monitoring screen. You can freely set your favorite design with the dress-up function.



1 Graph

Inverter graphs, string graphs, and power purchases and sales graphs can be displayed according to measurement items.



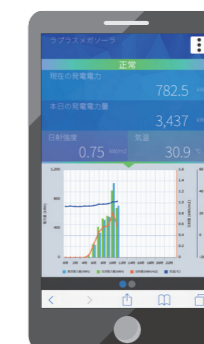
8 Weather information

The current weather at the set observation point and forecast information for every 3 hours from the operating time can be displayed.

*Setting is required on the customer's side.
*This service is for the Japanese market.



Dedicated screen for smartphones and tablets



- Basic information
- Site status
- Current power generation
- Today's power generation
- Solar radiation intensity
- Temperature
- Daily graph
- Power generation status by inverter

*Display and operation are not guaranteed for all smartphones, tablets, and web browsers and their respective versions.

Monitoring function

By freely selecting the functions you need, you can set up the optimal monitoring screen.

Power generation diagnosis Standard (selectable)

It detects abnormalities through multiple diagnostics, such as diagnosing whether power is being generated in accordance with the amount of solar radiation for each inverter and string, and whether power is being generated correctly based on the output ratio of each inverter and string to the total amount of power generated.

Solar radiation diagnosis

*Measurement of solar radiation and temperature is required.

Losses can be minimized by notifying when the amount of electricity generated is less than the equivalent of the solar radiation intensity or when the amount of electricity generated is lower than the historical measured data.

Simplified Diagnosis

Abnormal indication when solar radiation intensity is present and continuous power generation cannot be detected.

Detailed diagnosis

Calculates the amount of electricity generated according to solar radiation based on past data and detects abnormalities.

Output ratio diagnostics Patented

The normal range of power generation is determined from the output ratio of each inverter/string to the total, and whether power is being generated correctly is diagnosed for each time period.

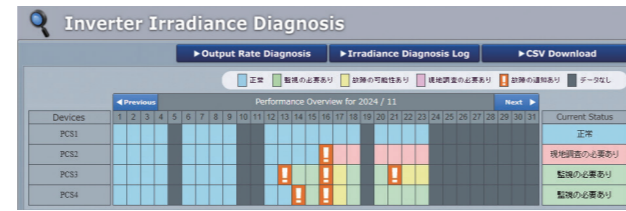
*Only when multiple diagnostic targets (inverter or strings) are monitored.

Aging Indicator

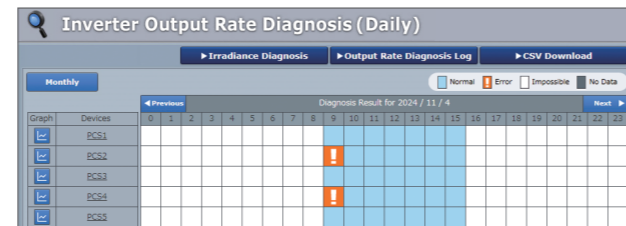
Calculates system output factor, equipment utilization factor, inverter conversion efficiency, and module conversion efficiency, and displays graphs showing changes in the power plant over time.

Diagnosis of power outage

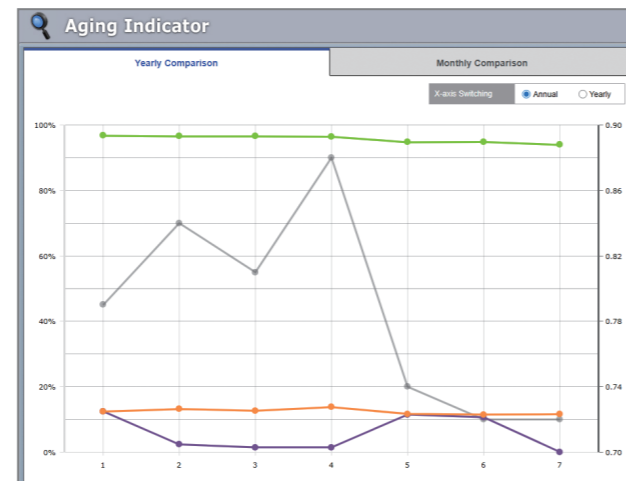
For all inverters in a power plant, the system detects a power outage when 0 kW is generated for longer than a set period of time.



Inverter irradiance diagnosis screen



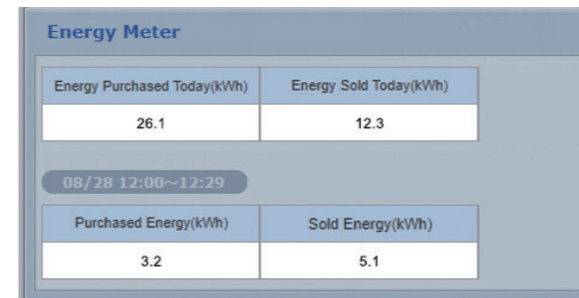
Inverter output rate diagnosis screen



Aging indicator screen

Energy Meter (metered value)

Information obtained from smart meters (low and high voltage) and meters with verification is displayed and can be downloaded in CSV format.



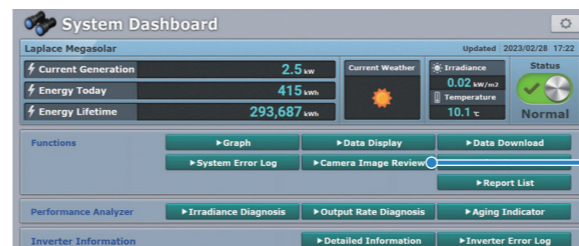
Power generation site map Standard (selectable) for the Japanese market

Each site in the group can be monitored in a list format, and pins can be placed on the map to display the location of the power plant. Click on a pin to see basic information about the site.



Camera image Option (paid) for the Japanese market

A single measuring machine configured in L·eye can both measure and acquire images. Acquired images can be stored for 31 days, allowing you to go back in time to check the situation at the site.



- 1 Select the date of the photo shoot from the calendar
- 2 Displays camera images for the selected date
- 3 Select an image with the scroll bar
- 4 Arrow buttons to display before and after images



Remote control Option (paid) for the Japanese market

Inverters can be remotely switched ON/OFF via the measurement device.

In addition, reservation control settings can be made by selecting the target inverters, date, and time.



Remote control screen

Reservation setting screen

NEW Local control

Switch inverters ON/OFF directly from the web app to the measurement device.

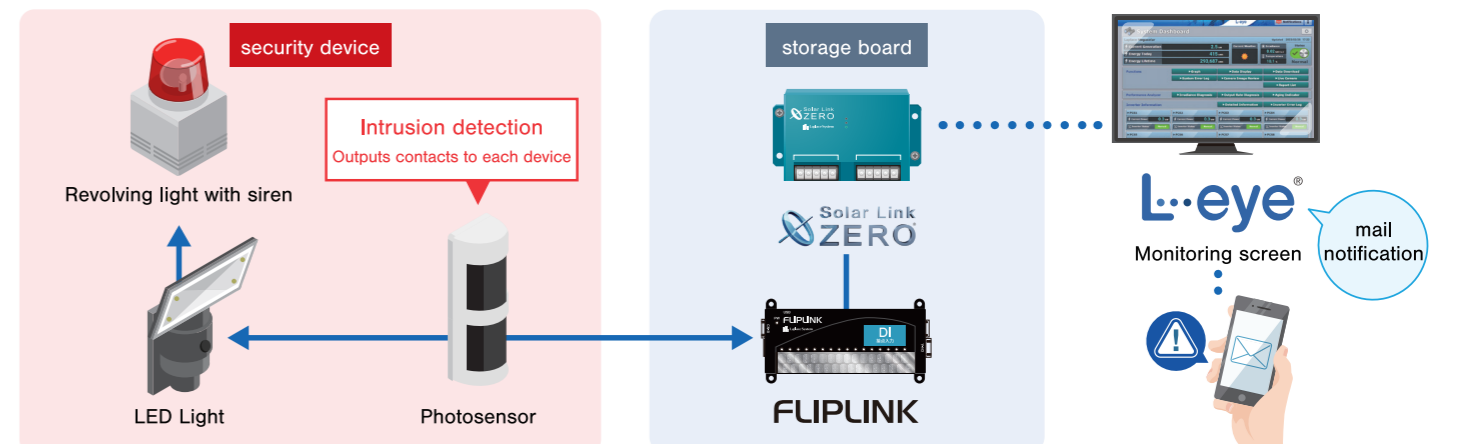
*Must be used in conjunction with remote control.



Web app local control screen

NEW Security Option (paid) for the Japanese market

When the motion sensor detects an intrusion, a revolving light with siren and LED light will threaten the intruder. It also alerts the user of any abnormalities via e-mail. The history of intrusion and other abnormal detection can be checked on the L·eye monitoring screen.



Monitoring function

Email Notification

E-mail notifications are sent to a pre-registered e-mail address to notify the user of the occurrence of abnormalities. The email notifications enable the user to quickly become aware of abnormalities at the power plant.

In addition, if the error is from the inverter, the details of the error can be understood so that preparations can be made and on-site response can be made. This eliminates the need for unnecessary on-site response, and minimizes the loss of electricity sales by responding quickly and appropriately.

①Number of registered email addresses

Up to 60 e-mail addresses can be registered to be notified in the event of malfunction/recovery.

| Logbook Status Code | Type Code | Description | Email | Print | Send Group | Send Schedule | Always | Mail Sent | Done |
|---------------------|-----------|-------------|-------------------------------------|-------------------------------------|------------|---------------|-------------------------------------|--------------------------|--------------------------|
| 2001 | 007 | E1 系統過電流異常 | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | All | [A] Always | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 2002 | 007 | E2 系統不足電流異常 | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | All | [A] Always | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 2003 | 007 | E3 4種系統不足電圧 | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | All | [A] Always | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 2004 | 007 | E4 4種系統過電圧 | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | All | [A] Always | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 2005 | 007 | E5 4種系統不足電圧 | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | All | [A] Always | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 2006 | 007 | E6 4種系統過電圧 | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | All | [A] Always | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

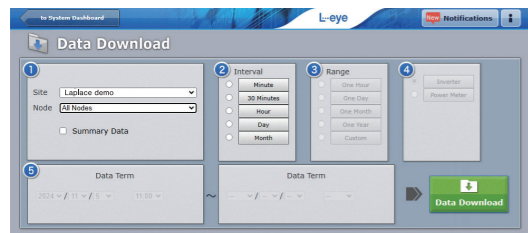
②Mail Destination Settings

Grouping of recipients, sending groups by item, time of day, etc. can be set.

Download data in CSV format

①Data unit

You can select 1 minute*, 30 minutes*, 1 hour, 1 day, or 1 month.
*The downloadable period is from the present to the past year.



②Report list

It can register information necessary for site management and is useful for maintenance records.

| Title | Status | Date and Time | Person in charge | Detail | Add | Delete |
|---------|--------|---------------------|------------------|--------|--------------------------|--------------------------|
| メチナンス記録 | 解決 | 2016/02/10 10:28:00 | ラブラス | Detail | <input type="checkbox"/> | <input type="checkbox"/> |
| メチナンス記録 | 対応中 | 2016/02/10 10:25:00 | ラブラス | Detail | <input type="checkbox"/> | <input type="checkbox"/> |
| メチナンス記録 | 新規 | 2016/02/10 09:25:00 | ラブラス | Detail | <input type="checkbox"/> | <input type="checkbox"/> |

③Download data type

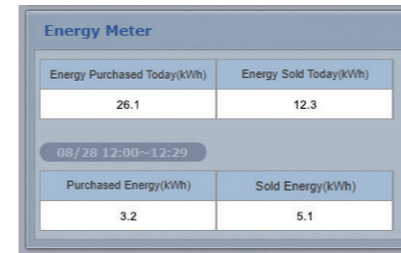
| data unit | data range | | details |
|------------|----------------|--------------|---|
| | fixation | limited time | |
| 1 minute | time report | For 1 hour | Data for 1 minute is the average or total of data measured from 00 to 59 seconds of each minute |
| | daily report | For 1 day | |
| 30 minutes | daily report | For 1 day | Data for 30 minutes is from 00 to 29 and from 30 to 59 minutes of each hour |
| | monthly report | For 1 month | |
| 1 hour | daily report | For 1 day | Data for 1 hour is from 00 to 59 minutes of each hour |
| | monthly report | For 1 month | |
| 1 day | monthly report | For 1 month | Data for one day from 0:00 to 23:59 |
| 1 month | annual report | For 1 year | Data for a month is available from the 1st to the last day of each month |

Smart meter (low and high voltage) support for the Japanese market

Smart meters (low and high voltage) and meters with certification are supported, and the acquired information can be viewed and downloaded from the L-eye monitoring screen.

①Weighing value display

Supports displaying the measured values of multiple electricity meters. The amount of power consumption can be calculated from the metered values and confirmed on the batch monitoring screen.



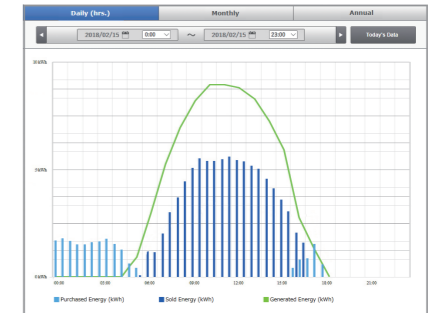
②Download group data

Metered values uploaded from multiple electricity meters can be downloaded in CSV format for each group of power plants.
*Group screen application is required.



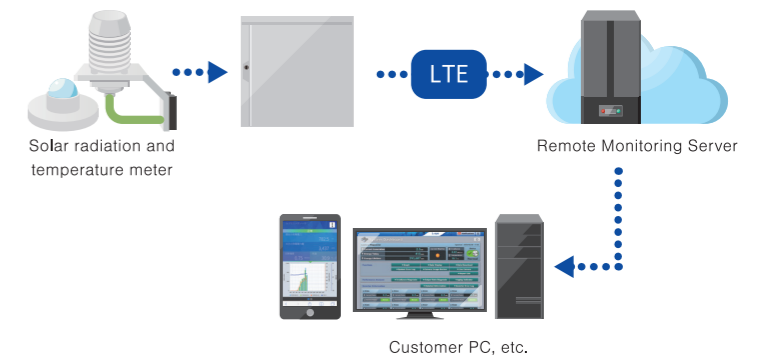
③Weighing value graph

When either the amount of power purchased or sold is measured by the metering value, a graph of power purchased and sold (metered value) can be displayed.



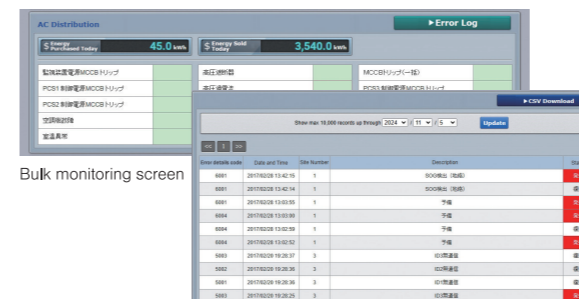
Compatible with solar radiation temperature and substation equipment

Solar radiation temperature measurements quickly catch signs of power generation decline. In addition to the measurement of each inverter, the operation status of substation equipment is also monitored. Items of substation equipment are also displayed in a list to visualize cubicle information.



Monitoring of substation equipment

The top of the batch monitoring screen displays a list of items of substation equipment and also provides e-mail notification in the event of an abnormality, making cubicle information visible. It is also possible to set the name and display color of contact status one item at a time.



String Monitoring

The power generation status and fault status items for each string are displayed at the top of the batch monitoring screen, and detailed information on each can be checked and downloaded. Solar radiation diagnosis is also performed for each string.



Various options are available by subscribing to L·eye monitoring screen.

Planned value control Option (paid)

Inverter is controlled based on the power generation plan created and uploaded by the customer. Planned and actual values as well as update history can be checked.

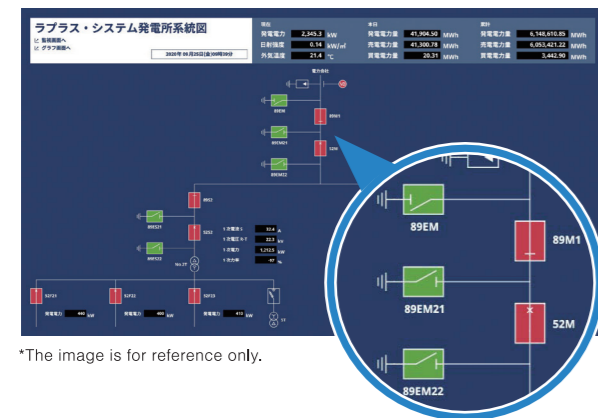
*We do not promise to control the same amount of planned and actual power generation.



Planning Screen

System diagram Option (paid)

Created based on single-wire diagrams provided by the customer. This allows an intuitive understanding of the overall operating status of the power plant and helps to identify the location of any abnormalities.



*The image is for reference only.

Local display PC Option (paid)

The measurement device is connected to a small PC and displayed on a display via HDMI output from the PC. This can be used for on-site monitoring or as a simple PR display.

*Cannot be used in conjunction with the camera image option.



Setup Screen

Display board Option (paid)

Originally designed display panels that can be used for eco-friendly PR in various indoor and outdoor locations. Customized designs are also available for effective PR tailored to the installation location.

*Implementation may not be possible depending on the package configuration.

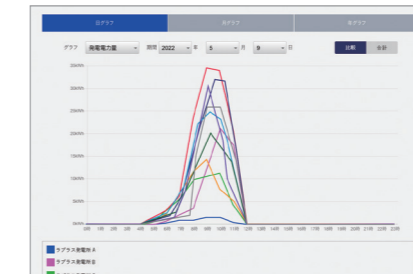


Comprehensive monitoring

The status can be monitored from various perspectives, such as the entire power plant owned, by group, or by power plant. The system can be transferred to individual monitoring screens for each power plant, allowing for smooth and more detailed status checks in the event of an abnormality.



Top screen



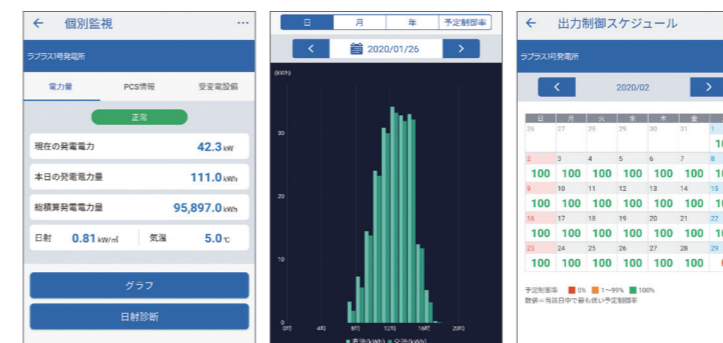
Comparison graph screen



Edit screen

Monitoring apps

The application can be downloaded free of charge and allows users to check power generation status anytime, anywhere, with the high operability of an app, including detailed monitoring of inverter units, output control status, and a list of multiple power plant statuses.



Individual monitoring

Graph display

Output control

Download by reading QR code



*Android 13 or later is not supported.

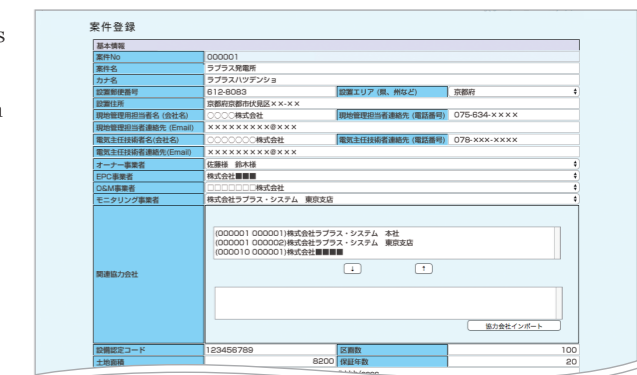


O&M Assist

O&M Assist is available free of charge to L·eye users. O&M Assist is a tool that allows users of L·eye to centrally manage troubles and maintenance information of power plants, and is full of useful functions for O&M, such as displaying failure information linked to L·eye and linking to the monitoring management screen.

1 Centralized management and sharing of various information on projects

Basic information such as the address and business owner of the project, as well as maintenance information, trouble information, drawings, photographs, contracts, and other documents can all be managed in conjunction with the project.



2 L·eye Monitoring Screen and Linkage

Linked to the L·eye monitoring screen, inverter failure history, system failure history, substation equipment failure history, and power generation diagnosis history can be selected in O&M Assist. This also allows the time of occurrence of abnormalities to be recorded.

3 Schedule management function

Linked to Google Calendar, you can manage your regular maintenance schedule. In addition, a reminder function prevents missed responses.

*A separate Google account and linkage settings with O&M Assist are required.

Expressive visualization in a wide range of scenes

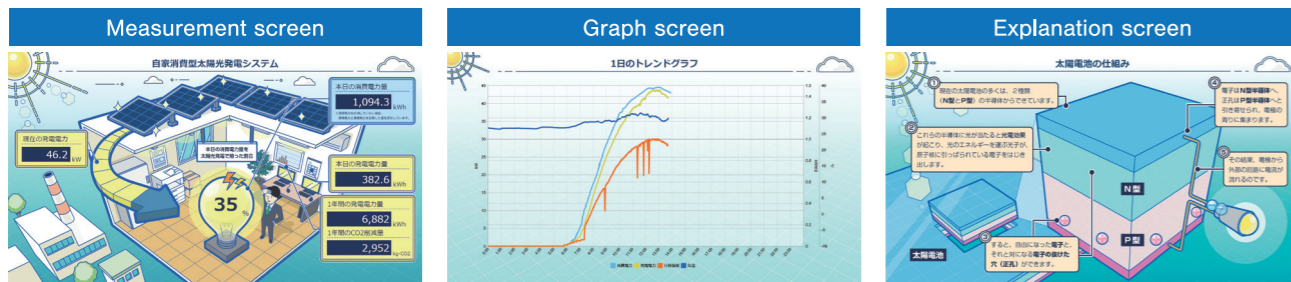
Mieruka Web can widely promote your environmental contribution through a web browser.

Linked to the L-eye remote monitoring system and service, Mieruka Web can visualize the status of power generation and other information in a variety of designs to achieve effective PR for environmental contributions.

Mieruka Web Free (Free version) for the Japanese market

Free PR screen with easy setup

Simply register for a Laplace ID to freely use content for full power sales, surplus power sales, private consumption, and storage batteries.



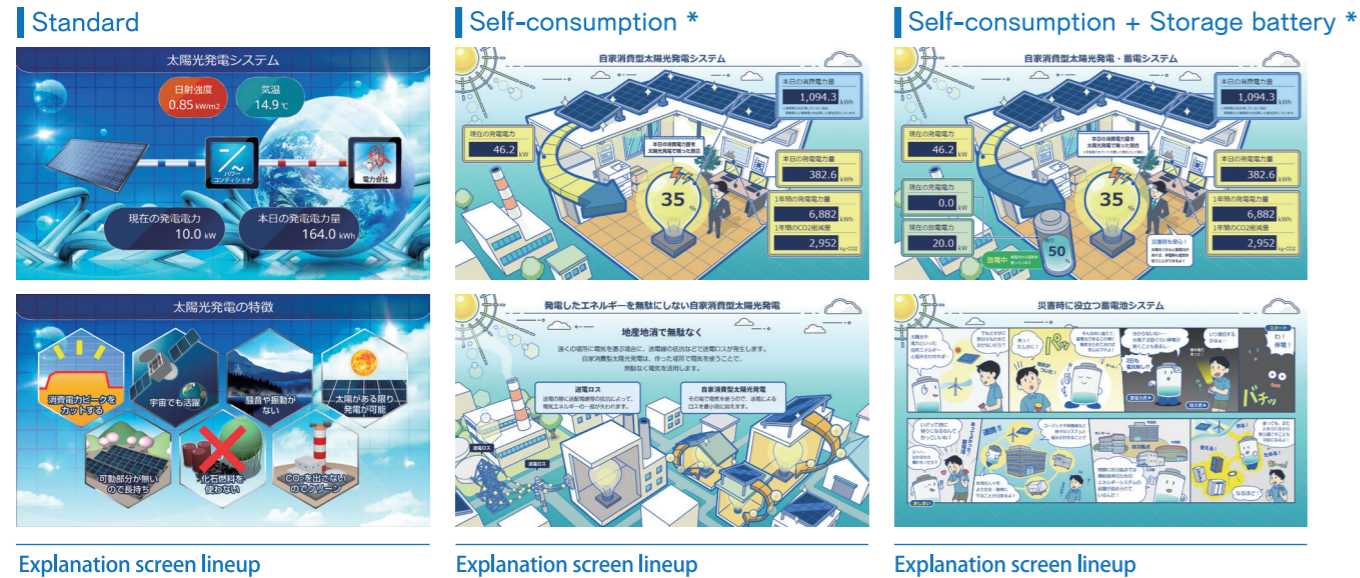
The power generation status and other information can be checked, and measurements are updated every 10 minutes.

Trends in power generation and other data can be viewed in graphs, with graphs updated every 10 minutes. (A total of four types of graphs: daily trend graphs, daily, monthly, and yearly)

The animation shows how solar power generation, self-consumption, and storage batteries work.

Selectable screen taste

You can choose the screen taste that best suits your power generation equipment.



Explanation screen lineup

1. Characteristics of solar power generation
2. How solar cells work
3. Effective use of electricity

Explanation screen lineup

1. How solar cells work
2. What is self-consumption solar power generation?
3. Self-consumption solar power generation that does not waste the energy generated

Explanation screen lineup

1. How storage batteries work
2. Using energy wisely with storage batteries
3. Storage battery systems that are useful in times of disaster
4. What is self-consumption solar power generation?
5. Using energy efficiently through local production and consumption

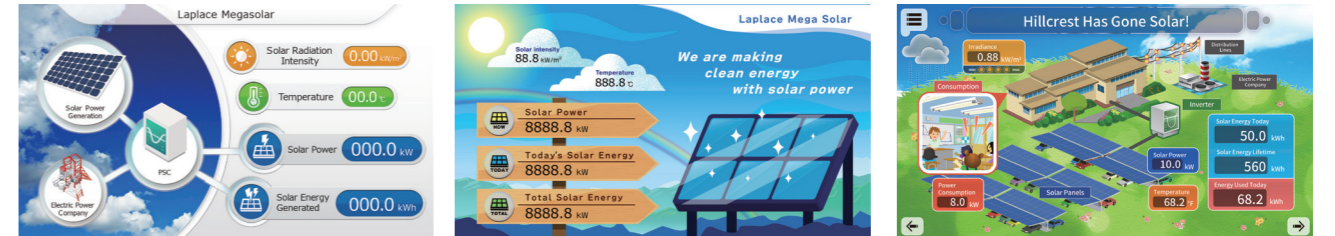
*This applies to the Solar Legato or Solar Legato Battery automatic output control systems for self-consumption solar power generation. Even if you have not installed the above systems, you can still display the data, but there are some items for which the values are not reflected. If you would like to use these systems, please contact us separately.

Mieruka Web Premium (Paid version)

Customize your design to suit your needs

We can flexibly respond to a variety of requests, from partial customization of Mieruka Web-free to the creation of new content.

We also provide PR content for environmental contribution, where you can enjoy rich explanations through illustrations and animations. *Content is a service for the Japanese market. *The screen is for illustrative purposes only.



SDGs Content

Set on "SDGs Island," you can learn about the overview of the SDGs and their 17 goals while touring the island's facilities.



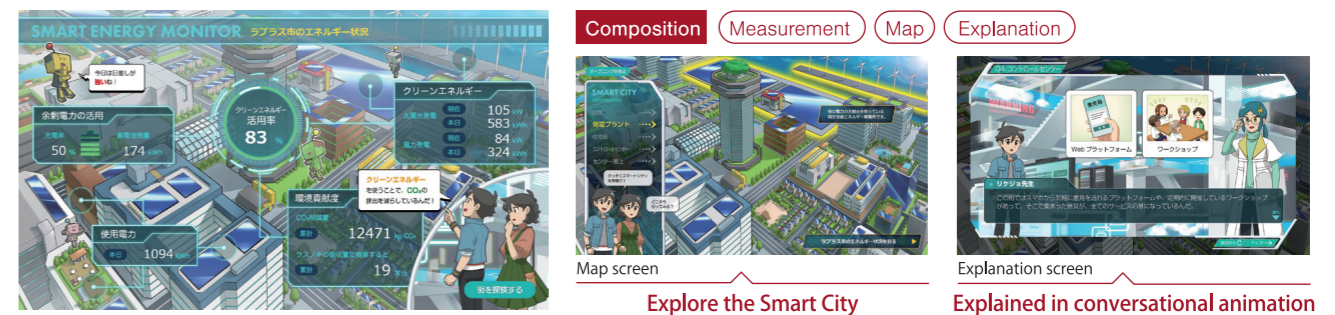
Measurement screen (4 types)

Facilities aligned with 17 goals

Animated explanations of each goal

Smart City Content

Explore smart cities and learn about the technology and concepts.



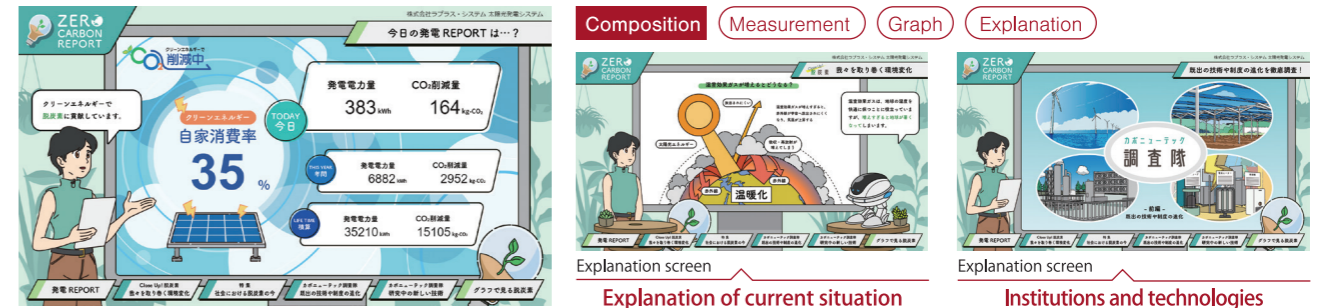
Measurement screen

Explore the Smart City

Explained in conversational animation

Decarbonized Content

Set in a fictional decarbonization news program, you can learn about environmental changes and progress towards decarbonization.



Measurement screen (2 types)

Explanation of current situation

Institutions and technologies

L · eye Photovoltaic Package Contents

*The packaged version is available for the Japanese market.

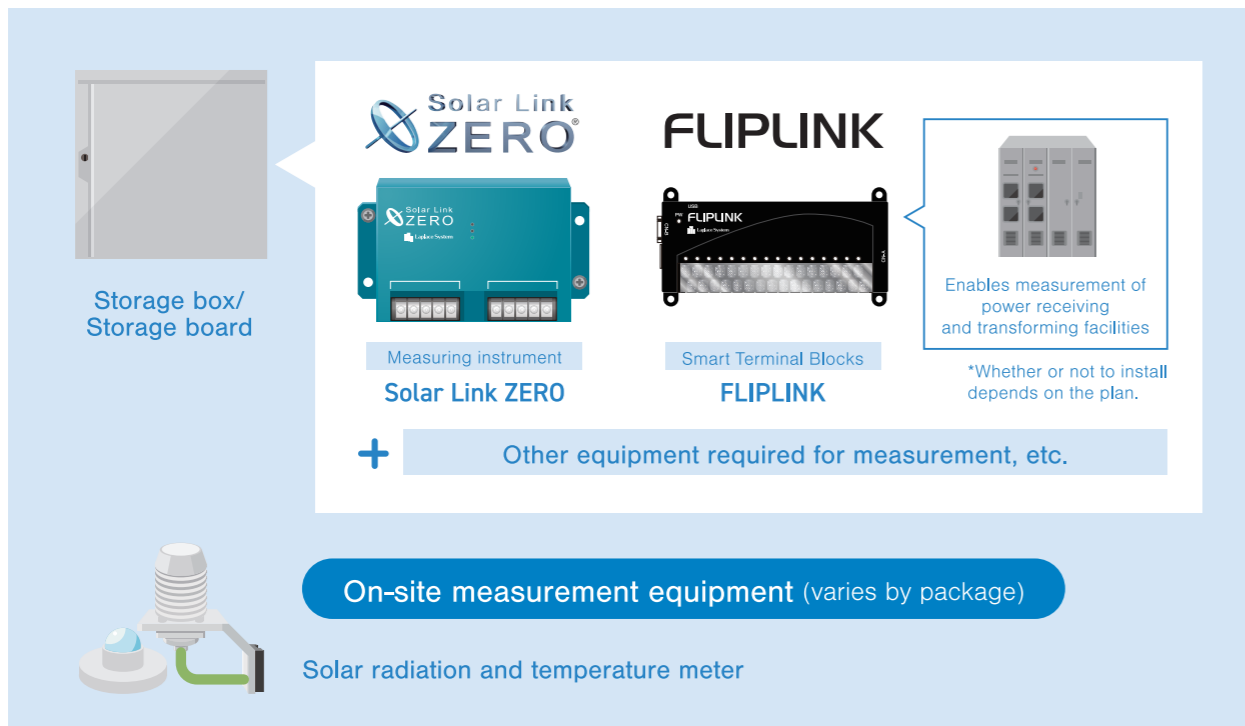
Packaged by capacity, from low voltage to extra high voltage

We offer a lineup of remote monitoring equipment, communication lines, etc. packaged together and selectable by capacity. Since everything is provided in one package, there is no need to arrange for individual devices or contract with communication line providers.

Package Contents

1

Storage box/Storage board and On-site measuring equipment



2

Monitoring screen



3

Communication line between local and remote monitoring server

LTE Communication

4

Comprehensive support

Equipment Warranty

Alternate Line Warranty*

After-sales support by call center

*If the telecommunication line service at the time of subscription is terminated in the future, an alternative line will be provided separately.

Specification

*Specifications for the Japanese market.

Solar Link ZERO

Compact, high-performance measurement and control terminals

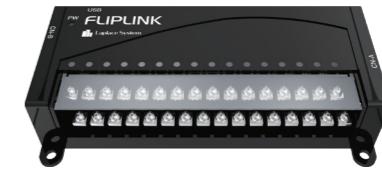


This compact terminal integrates the functions required for photovoltaic power generation measurement. It provides measurement and remote monitoring functions and also serves as an output control unit.

| | |
|-----------------------|---|
| Model | Solar Link ZERO-T4 |
| CPU Core | Quad-core Cortex-A72 (ARM v8) 64-bit |
| Operating frequency | 1.5 GHz |
| RAM | 4Gbyte LPDDR4-3200 SDRAM |
| Flash memory | 32Gbyte eMMC |
| Ethernet | Wired 10BASE-T/100BASE-TX/1000BASE-T(RJ-45) |
| Serial port | RS-485 I/O port (5-pin terminal block x 2) Isolation specification (withstand voltage 500V or more) |
| Size | W152×D102.4×H46.6mm(Excluding protrusions) |
| Operating temperature | -20 to 60°C (humidity: 85%RH or less, no condensation) |

FLIPLINK

Terminal block type measuring instrument that allows you to simply organize your storage board



Compact and simple terminal block type remote I/O, based on the concept of integrating a measuring instrument and a terminal block. 4 models are available for solar radiation and temperature input (ST), contact and pulse input (DI), contact output (DO), and analog input (AI).

*Whether or not equipped depends on the plan

| | |
|-----------------------|---|
| Model | ST Solar radiation and temperature input DI Contact and pulse input DO Contact output AI Analog input |
| Controller | 32bit ARM MCU 96MHz Clock, 256KB flash, 96KB SRAM, USB2.0 |
| Interface with host | USB Type-C connector x 1 (communication with measurement device and power supply) |
| Connecting terminals | 6 poles x 4 (communication and power supply between FLIPLINKs) |
| input-output terminal | 32 poles ST: Solar radiation 2 poles each x 2 ch, Air temperature 3 poles each x 2 ch (22 poles are NC) DI / DO: 16ch x 2 poles each AI: 8ch x 2 poles each (16 poles are NC) |
| Size | W150 x D32 x H60mm (excluding protrusions) |
| Operating temperature | -20 to 60°C (10 to 90% RH humidity, no condensation) |

Common

- Communication line between local and remote monitoring server*1
- L · eye ASP Service*2
- Measuring Equipment

*1 Prior confirmation is required for the coverage area.
*2 ASP service fee and communication line fee must be paid in a lump sum.

Installation conditions

There are restrictions on the model and number of inverters that can be connected.

Equipment Warranty

The equipment warranty for measuring instruments is provided for the contracted number of years, and for other equipment for one year. The equipment warranty for measuring equipment will continue when the contract is extended.

For additional camera image options

The warranty for the measurement device and camera peripherals will be provided for the contracted number of years, and the warranty for the webcam and other devices will be provided for one year. The warranty for the measurement device and camera peripherals will continue when the contract is extended.

Alternate Line Warranty

In the event that the telecommunication line service at the time of subscription is terminated in the future, an alternative line will be provided separately.