Z300 PVT - 1500 V / 30A DC

Photovoltaic testing and troubleshooting kit

emazys

The troubleshooter for solar energy

Z300 PVT user manual

Z300 PVT
User Manual

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1 Nomenclature

1.1 Warning Signs

Please note that the manual uses the following safety instructions. The safety instructions should be followed carefully. Failure to do so may cause personal injury or irreparable damage to the equipment.

WARNING.
Personal injury / death. A situation of use of a technical nature or the like which may cause injury or death.

WARNING.
Personal injury / death. Risk of electrical shock.

CAUTION.
Damage to the machine or accessory. A situation of use of a technical nature or the like, which can cause damage to the machine or accessories.

NOTICE.
Important information. A situation of use of a technical nature or the like, which is very important.

1.2 Tips and Recommendations

Please note that the manual uses the following information instruction.

INFORMATION.
Provides useful tips and recommendations and provides information on how to use the product efficiently and without interruptions.

2 Limited Warranty and Limitation of Warranty

Each emazys (Manufacturer) product is warranted to be free from defects in material and workmanship under normal use and service. The warranty period is one year and begins on the date of shipment. Parts, product repairs, and services are warranted for 90 days. This warranty extends only to the original buyer or end-user customer of a manufacturer authorised reseller, and does not apply to fuses, disposable batteries, or to any product which, in the manufacturer's opinion, has been misused, altered, neglected, contaminated, or damaged by accident or abnormal conditions of operation or handling.

The manufacturer warrants that software will operate substantially in accordance with its functional specifications for 90 days and that it has been properly recorded on non-defective media. emazys does not warrant that software will be error-free or operate without interruption.

Manufacturer authorised resellers shall extend this warranty on new and unused products to end-user customers only, but have no authority to extend a greater or different warranty on behalf of the manufacturer. Warranty support is available only if a product is purchased through an emazys authorised sales outlet or if the buyer has paid the applicable international price.

The manufacturer reserves the right to invoice the buyer for importation costs of repair/replacement parts when a product purchased in one country is submitted for repair in another country. The manufacturer's warranty obligation is limited, at the manufacturer's option, to refund of the purchase price, free-of-charge repair, or replacement of a defective product which is returned to the manufacturer's authorised service centre within the warranty period.

To obtain warranty service, contact the emazys service centre by e-mail: `sales@emazys.com` to obtain return authorisation information. Then send the product to the service centre, with a description of the difficulty, postage and insurance prepaid (FOB Destination). Whenever possible, remove the battery from any product before shipping it to the manufacturer. The manufacturer assumes no risk for damage in transit. Following warranty repair, the product will be returned to the buyer, transportation prepaid. If the manufacturer determines that failure was caused by neglect, misuse, contamination, alteration, accident, or abnormal condition of operation or handling, including over-voltage failures caused by use outside the product's specified rating, or normal wear and tear of mechanical components, the manufacturer will provide an estimate of repair costs and obtain authorisation before commencing the work.

Following repair, the product will be returned to the buyer, transportation prepaid, and the buyer will be billed for the repair and return transportation charges.

THIS WARRANTY IS THE BUYER'S SOLE AND EXCLUSIVE REMEDY AND IS IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. THE MANUFACTURER SHALL NOT BE LIABLE FOR ANY SPECIAL, INDIRECT, INCIDENTAL, OR CONSEQUENTIAL DAMAGES OR LOSSES, INCLUDING LOSS OF DATA, ARISING FROM ANY CAUSE OR THEORY.

Since some countries or states do not allow limitation of the term of an implied warranty, or exclusion or limitation of incidental or consequential damages, the limitations and exclusions of this warranty may not apply to every buyer. If any provision of this warranty is held invalid or unenforceable by a court or other decision-maker of competent jurisdiction, such holding will not affect the validity or enforceability of any other provision.

2.1 Warranty Disclaimer

The Z300 PVT instrument is warranted for 12 months from reception. The warranty does not cover the battery or other auxiliary items. There is no warranty on the device if you use cables other than the supplied ones. The warranty will be invalid if the product is damaged due to any of the following:

- Neglect to follow the user manual in general
- Use of the product for purposes for which it was not intended
- Natural wear
- Incorrect fitting
- Mechanical or technical alterations
- Use of unauthorised spare parts
- Use outside the specified power limits

3 Unpacking and Commissioning

3.1 Scope of Delivery

The Z300 PVT is delivered in a cardboard box. We recommend saving the box for later use if you need to transport the instrument or, e.g., send it for service or calibration.

INFORMATION.
If you use knives or sharp objects when unpacking, please exercise great care.

After unpacking, make sure that you have received all parts ordered. Accessories and special items may have been ordered as well, so please check with your purchase order and invoice that nothing is missing. If you have not received all parts, please contact emazys or your local distributor.

1. Z300 PVT instrument
2. RRC 2054 rechargeable Li-ion battery
3. RRC-SMB-MBC-RRC battery charger
4. Amplifier probe R180001
5. Power cable for charger – country specific
6. Test lead (black) 1500V CAT III
7. Test lead (red) 1500V CAT III
8. PV measuring cord, MC4 female 1500V CAT III (black)
9. PV measuring cord, MC4 male 1500V CAT III (red)
10. Crocodile clip to banana lead, GND 1500V CAT III (yellow/green)
11. Insulated alligator clip 1500V CAT III (black)
12. Insulated alligator clip 1500V CAT III (red)
13. Fine probe 1000V CAT IV (black)
14. Fine probe 1000V CAT IV (red)

Note: The picture shows the standard Z300 PVT kit. A range of different accessories can be supplied from emazys. Please go to emazys.com and see what we can offer.

3.2 Commissioning

3.2.1 Battery

Prior to start-up, please check that the RRC2054 battery is fully charged. The battery can be charged using the charger that comes with the instrument.

3.2.2 Control Interface

The control interface is separated from the main instrument box in a wireless manner, and you may use a smart device with a Bluetooth transceiver running either iOS or Android. The front panel itself only includes instrument status LEDs, the ON/OFF/WAKE-UP button, battery access, and a Bluetooth connector.

3.2.3 Cables

Connect the supplied cables to the instrument. The red wire is connected to the Red (+) connection socket, the black wire is connected to the Black (-) connection socket, and the yellow/green wire is connected to GND. Different solar PV modules may use different connectors than those supplied with the Z300 PVT kit. If you need other types of adaptors, please contact emazys or your local distributor.

Make sure to connect the inputs correctly on the Z300 PVT instrument.
(Cables are all coloured accordingly)

WARNING.
Personal injury / death. Make sure cables used to connect the instrument to photovoltaic modules and strings are CAT III, 1000 V AC / 1500 V DC compliant.

WARNING.
Personal injury / death. Risk of electrical shock.

CAUTION.

Damage to the machine or accessory. It is not recommended to use cables other than those supplied. The instrument's warranty is no longer valid if other types of cables are used.

4 Safety

Before carrying out measurements with the Z300 PVT, you must ensure that:

- there is sufficient space to operate the instrument
- the necessary tools are present on the site
- the operator has a general knowledge of PV modules (photovoltaic modules) and is trained to work in high-voltage environments
- the instrument is correctly connected
- the instrument and the measurement cables are in good condition. Check that the cables are not cracked or damaged in any way.

NOTICE.

- The Z300 PVT and the user manual are intended for use by adequately trained personnel.
- Before use, the operator must have read the user manual.
- The user manual must be kept near the instrument.

WARNING.

- PV module measurements are performed in high-voltage areas. Always use approved safety equipment designed for high-voltage installations.
- If subjected to an electrical shock, you must seek medical advice, even if you feel well. Some potentially harmful effects may not occur until several hours after exposure.

CAUTION.

- Exercise caution in use.
- The Z300 PVT should be used wherever possible in a dry environment.
- The instrument's lid should always be closed during long-term measurements. Make sure to mark the measuring site.

5 Operation

Caution:

- Do not connect the instrument to the inverter.
- When testing PV strings connected in parallel, consider the specifications of the instrument.
- The instrument is not suitable for continuous operation at the DC PV source.
- Disconnect all leads after testing.
- Do not operate the instrument with the battery cover open.
- Failure to comply can lead to instrument damage and loss of warranty.

The Z300 PVT is a portable and battery-powered instrument used to test and troubleshoot faults in strings of series-connected photovoltaic modules. Furthermore, it has the capability to help in mapping the layout of arrays of PV modules when using the tone generator and tone pickup.

INFORMATION.
All Z300 PVT analysis algorithms assume that the instrument is connected to a series string of solar PV modules. When testing parallel strings, the fault-positioning algorithms may not always indicate the correct position. Consider breaking up the strings when troubleshooting PV arrays. In general, it will make the work easier and faster.

Specifically, the instrument has the following features and measurement applications:

1. Measure position of a single ground fault in a PV string
2. PV string open-circuit voltage V_{OC}
3. PV string short-circuit current I_{SC}
4. PV system isolation resistance R_{ISO}
5. Tone generator and tone tracer pickup
6. Built-in PDF report generator, where the report includes a list of metadata points such as GPS coordinates, digital photos, timestamps, etc.

The instrument is connected to the string terminals, e.g. at the string inverter or combiner box, and also to the ground reference for the PV installation.

5.1 Front Panel Elements

In the illustrations below, you will find a description of each element found on the front panel of the Z300 PVT. The tables below show sections of the front panel seen in Figure 1.

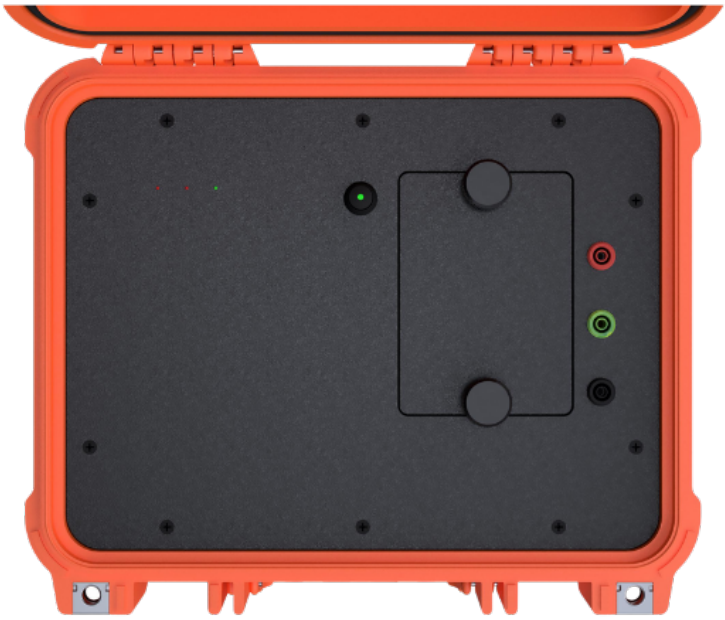
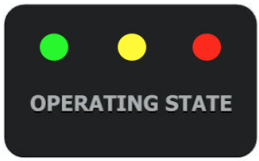


Figure 1: Z300 PVT front panel. Placed in the middle of the front panel is the ON/OFF switch. When the instrument is turned on, a small LED in the button will emit green light. The instrument USB connector is found above the ON/OFF button. This connector can be used for various purposes such as software updates.



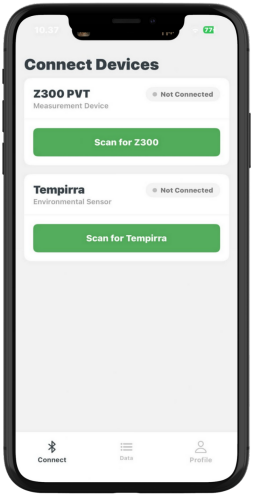
The operating state of the instrument is indicated by three coloured light-emitting diodes (LEDs)—upper left in Figure 1. The green diode is on when the instrument is turned on. The yellow diode will blink when the Bluetooth computer is ready to transmit and receive data. The yellow diode will stop blinking and turn fully on when the device is connected. The red LED will blink when the instrument is busy.

5.2 Using the Controller App - iOS or Android

You will communicate with the Z300 PVT using a smart device with the Z300 PVT controller app installed. The app is available for iOS and Android. Please go to either the Apple App Store or Google Play Store and download the app for free. Search for "Z300 PVT".

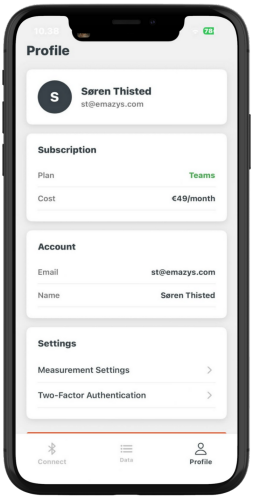
INFORMATION.

After downloading the Z300 PVT controller app, please create a user account. Having a user account is a requirement to use the emazys data cloud. Furthermore, emazys will not be able to support your field work and help to analyse test results if the data is not saved to the emazys data cloud.



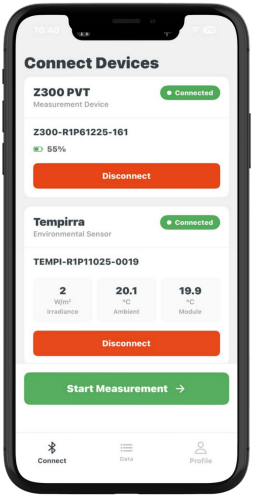
Home

Home screen. The main screen that appears after opening the controller app.



Profile

By navigating to *Profile* using the main navigation at the bottom of the app, your profile will be shown and settings visible. It is possible to set the String Test Settings here by pressing the button for *Measurement Settings*.



Connect

Make sure the Z300 PVT has the battery installed and that the device is turned on. Make sure Tempirra has been charged via the USB cable. After pressing SCAN, you will see the Z300 Bluetooth network as well as the Tempirra network. The connection takes a few seconds to complete.

6 Applications and Measurements

All modules in the string under test must be illuminated by at least 100–150 $\mathrm{W/m^2}$ during string testing. If the irradiance is below this threshold, impedance-based measurements will not return realistic values.

When verifying the output performance of a solar array (voltage and current), it is essential to test the solar panels under stable environmental conditions. Ideally, modules should be tested under Standard Test Conditions (STC). STC refers to 1000 $\mathrm{W/m^2}$ solar irradiance, a cell temperature of 25 °C, an air mass of 1.5, and the ASTM G173-03 standard spectrum.

6.1 Power Considerations for Field Testing

High-efficiency (HE) solar PV modules have become popular for utility-scale solar installations. HE modules are characterised by efficiencies above 19% and are usually designed for 1500 V applications. While HE modules offer higher performance, they also present challenges for field testing and maintenance.

6.1.1 Inrush Current in High-Efficiency PV Modules

Modern solar modules are built with advanced materials that can store charge for extended periods. When a short-circuit condition is established, this stored capacitance releases a burst of current, creating a high inrush current during the first few milliseconds.

The Z300 PVT can tolerate a certain level of inrush current. However, if the current surges towards the limit, the over-current protection will activate, interrupting the measurement and displaying **Error 6**. Inrush current scales positively with the following factors:

- Module efficiency
- String current and voltage
- Number of parallel strings
- Irradiance
- Temperature

Bifacial modules further increase capacitance, which can amplify the inrush current. To mitigate this, users may:

- Break up strings to reduce voltage
- Adjust tracker orientation to reduce irradiance
- Test under lower irradiance
- Break up parallel strings into single strings

6.2 Measuring Functions

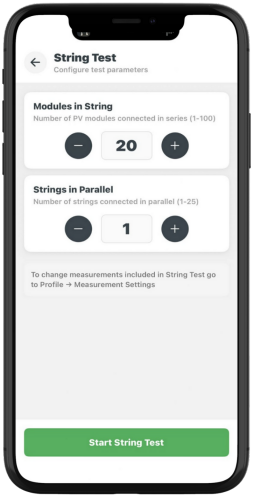
- Open-circuit voltage, V_{OC}: [0–1500 V]
- Short-circuit current, I_{SC}: [0–30 A]
- Electrical polarity: [OK / not OK]
- Isolation resistance, R_{ISO}: [0–99 MΩ]
- Isolation resistance fault location: $R_{\mathrm{ISO}} < 3\,\mathrm{M}\Omega$
- Series resistance, R_{S}: [0–10 kΩ]
- Tone generator + amplifier probe

6.2.1 Locating R_{ISO} Faults

The Z300 PVT measurement of isolation resistance is based on measuring voltage transients in energised circuits. This testing principle allows measuring the position of an isolation fault when $R_{\mathrm{ISO}} < 3\,\mathrm{M}\Omega$. The calculation will return the fault position as the distance (module number) from the PV+ terminal. In the calculation, it is assumed that there is one dominating isolation fault, but this may not always be the case. Isolation issues can also be widespread in the PV array.

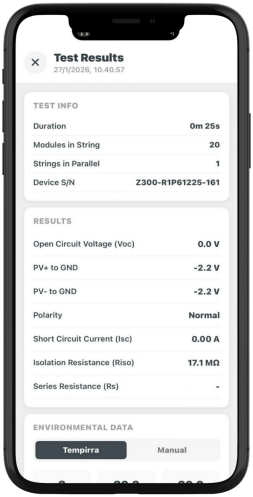
6.3 String Test

The String Tester is the main test program of the Z300 PVT. After selecting the test, the initialisation screen appears, where you specify the number of PV modules in the string. This information is used to calculate fault positions and other relevant values.



Initialisation screen. Before starting the string test, the user must adjust the number of PV modules in the string by pressing the plus or minus symbols. Once the correct number is set, press *Start String Test.*

When the string test is complete, the result screen will appear. Examples of result screens are shown below. The string test provides values for V_{OC}, polarity, I_{SC}, R_{S}, R_{ISO}, and the potential position of an R_{ISO} fault. The screen also displays the status for recording GPS coordinates of the measurement.



String Test Result Page. Showing the result page after successfully performing a string test.

Below the measurement values, there are data entry fields where system information can be added for the report. Before generating the PDF report, the user can use the smart device's camera to capture a photo of the PV system under test—for example, the backplate of the tested PV module to document STC values. Additionally, photos of observed issues can be stored for later evaluation.

6.4 Tone Generator

The tone generator is a simple yet powerful tool for tracing cables, modules, and faults in PV arrays. When activated, it transmits signals that can be traced using a handheld tone amplifier probe.

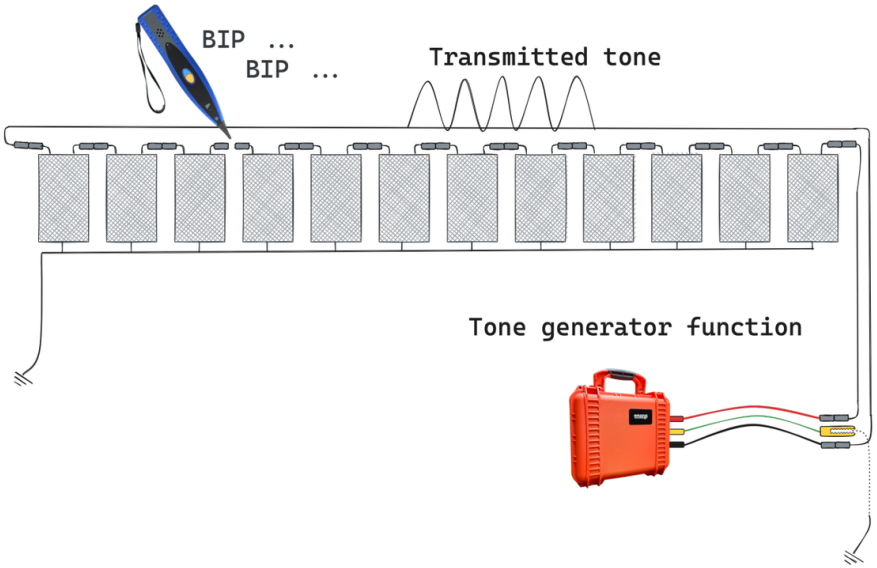
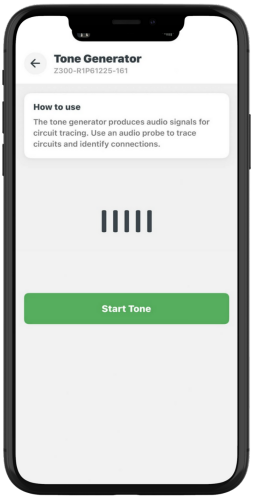
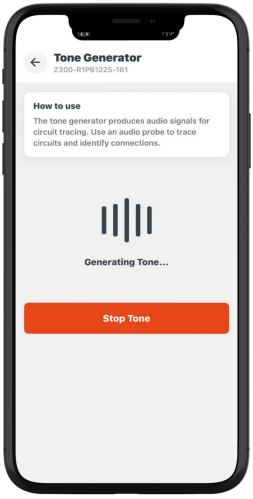


Figure 2: Testing principle of the tone generator function. The Z300 PVT transmits frequencies into the PV system. These tones are picked up and amplified by a handheld tone pickup device. This helps locate disconnections or trace wiring.

Tone amplifier probe. Pictured is the IDEAL tone amplifier probe, which works well with the Z200 and Z300 PV series instruments.



Tone generator main screen. Press the green button to start transmitting tones into the PV system.



Tone generator active. An on-screen animation guides the user to begin tracing signals with the tone pickup device.

6.5 Tempirra

Tempirra is a compact reference sensor for photovoltaic (PV) field testing made by emazys. The sensor can record solar irradiance, PV module temperature, and ambient temperature. The device communicates with the controller app via Bluetooth. The controller device also uses a Wi-Fi connection to synchronise the Tempirra test results with the emazys cloud, so the user can have both electrical and environmental test results logged. The Tempirra unit is powered by an internal Li-Ion battery and recharged through a USB-C connector.

Figure 3: Tempirra irradiance and temperature sensor—full kit.

Item	Item ID	Description
Tempirra reference sensor	1	Bluetooth datalogger (temperatures and irradiance)
Clamp	2	Clamp for fixing Tempirra on solar modules
PV cell temperature sensor fixture	3	Suction cup for fixing RTD sensor
USB-C to USB-A cable	4	USB cable for charging Tempirra
Wipes	5	Alcohol wipes for cleaning pyranometer

Table 1: Reference table—items in the Tempirra kit

6.6 Using Tempirra in the Field

Tempirra is an emazys field instrument designed to measure irradiance, module temperature, and ambient temperature during PV testing with the Z300 PVT. The device connects wirelessly to the Z300 controller and automatically records the measurement data for each string test.

1. Powering On the Device

1. Press the power button located on top of Tempirra (3)—see Figure 4.
2. You may charge Tempirra using the supplied USB cable on top of the device (1)—see Figure 4.
3. The LED will start blinking, indicating that the device is active and ready for pairing.
4. After a few seconds, Tempirra will appear in the Z300 controller app.

2. Mounting Tempirra on the PV Module

1. Select a suitable position on the aluminium PV module frame, preferably on the top or middle section for representative temperature measurements.
2. Place the clamp around the module frame and the sensor.
3. Secure the sensor on the side of the module and orient the irradiance sensor (1—see Figure 4) towards the sun and adjust for maximum reading in the irradiance value.
4. Secure the temperature sensors (4—see Figure 4) as desired. The suction cup device can hold the PV temperature sensor, while the ambient temperature sensor should hang in free air for optimal results.

3. Performing a Measurement

1. Start a test with the Z300 as usual.
2. Once Tempirra is added in the app, the following parameters are automatically recorded:
    - Irradiance (W/m²)
    - Module temperature (°C)
    - Ambient temperature (°C)
3. All measurement data is transmitted via Bluetooth and stored together with the test result in the emazys cloud.

4. After Use

1. Remove Tempirra by gently squeezing the clamp trigger and lifting the device off the frame.
2. Turn off Tempirra using the button. The device will automatically power down after a period of inactivity to conserve battery life.

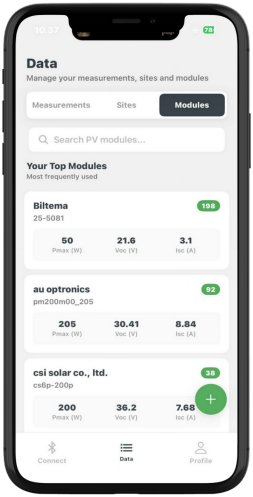
Figure 4: Tempirra irradiance and temperature sensor—device overview.

6.7 PV Modules Database

The Z300 PVT controller app includes a built-in PV modules database that allows you to store and manage specifications for the solar modules you test. This database is used to compare measured values against nameplate specifications and enables advanced analysis features such as STC deviation calculations.

Accessing the PV Modules Database

The PV Modules database can be accessed from the **Data** tab in the controller app. Navigate to the *PV Modules* section to view, search, and manage modules.



PV Modules Screen. The module database shows a list of all available PV modules. Use the search bar to find modules by manufacturer or model number.

Module Information

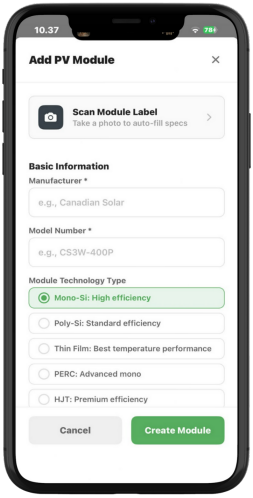
Each PV module entry contains the following specifications:

- **Manufacturer** – The company that produced the module
- **Model Number** – The specific model designation
- **Nameplate Power ($P_{\max}$)** – Maximum power output in Watts
- **Open-Circuit Voltage (V_{OC})** – Voltage at open circuit
- **Short-Circuit Current (I_{SC})** – Current at short circuit
- **Voltage at Maximum Power (V_{pmax})**
- **Current at Maximum Power (I_{pmax})**
- **Temperature Coefficients** – For temperature-corrected analysis

Adding a Custom Module

If your module is not in the database, you can add it manually:

1. Tap the **Add Module** button (+ icon)
2. Enter the manufacturer name and model number
3. Fill in the electrical specifications from the module's nameplate
4. Optionally add temperature coefficients for STC analysis
5. Save the module to your library



Add Module Screen. Enter the module specifications from the manufacturer's datasheet. Fields marked with an asterisk (*) are required.

Using Modules in String Tests

When performing a string test, you can select a PV module from the database to associate with the measurement. This enables:

- Automatic comparison of measured V_{OC} and I_{SC} against nameplate values
- STC deviation analysis
- Module information included in PDF reports

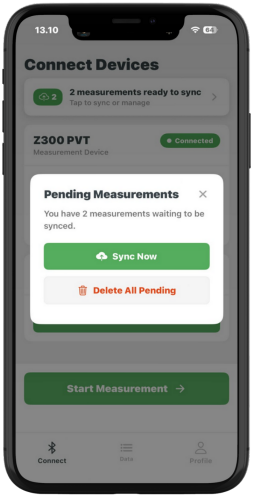
6.8 Offline Mode and Data Synchronisation

The Z300 PVT controller app is designed to work reliably even when you do not have an internet connection. This is particularly important for field testing in remote locations where cellular or Wi-Fi coverage may be limited.

How Offline Mode Works

When the app detects that there is no internet connection, it automatically switches to offline mode:

- Measurements are saved locally on your device
- A sync queue tracks all pending measurements
- GPS coordinates and photos are stored with each measurement
- The app displays the number of pending measurements awaiting sync



Sync Status. The app shows the number of measurements waiting to be synchronised. When online, tap *Sync Now* to upload pending data.

Automatic Synchronisation

When your device reconnects to the internet, the app will automatically begin synchronising your stored measurements to the emazys cloud. You can also manually trigger synchronisation from the sync menu.

6.9 Data Cloud and Controller App

Log in at `https://data-cloud.emazys.com` to view your stored test results. The dashboard offers multiple viewing options, including GPS and table views. Data can be filtered and exported as CSV/Excel files for fast reporting. Individual measurements can be inspected in detail by clicking map points or table entries.

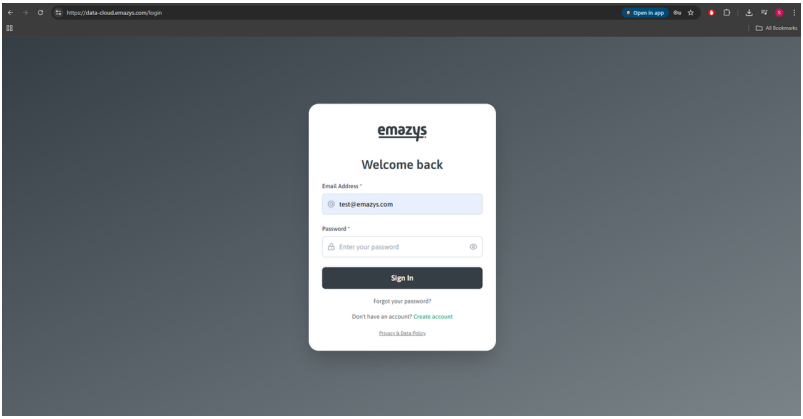


Figure 5: The login page of the data cloud. Enter your credentials and press the *Sign In* button.

Once you have logged on to the cloud, you will be greeted by an overview dashboard that summarises your measurements. From here, it is possible to navigate to the measurements for export of CSV/Excel files. It is also possible to navigate to sites for an overview of your site performances or problems. If you are ever in doubt about anything, it is also possible to navigate to our AI-powered assistant, Max, which can help you understand your measurements.

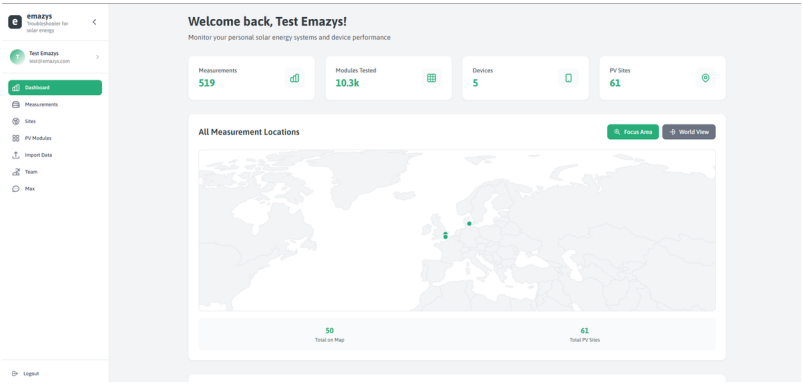


Figure 6: The dashboard page of the data cloud.

6.10 Exporting Data (CSV/Excel)

The emazys data cloud allows you to export your measurement data for use in external applications, reporting tools, or archival purposes.

Exporting from the Data Cloud

To export your measurements:

1. Log in to the data cloud at `https://data-cloud.emazys.com`
2. Navigate to the **Measurements** page
3. Apply any desired filters (date range, site, device, etc.)
4. Click the **Export** button
5. Select the export format: **CSV** or **Excel (.xlsx)**
6. Wait for the export to complete and download the file

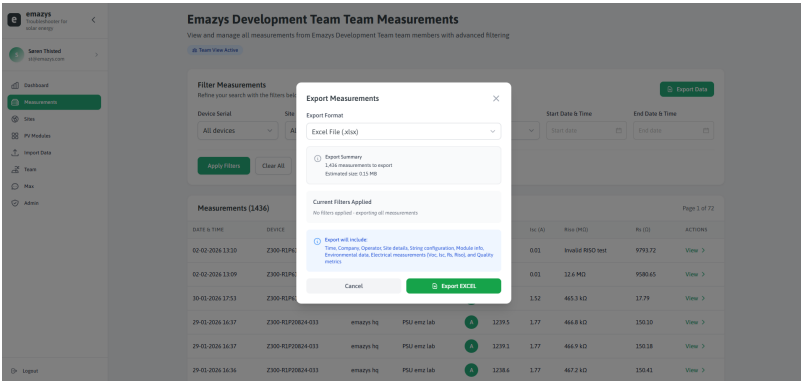


Figure 7: **Export Dialog.** Select your preferred format and click Export. For large datasets, an estimate of the file size and processing time is shown.

7 Calibration of Z300 PVT

To maintain the specified accuracy of testing results, the instrument must be recalibrated at fixed intervals by emazys. We recommend recalibrating the Z300 PVT once per year.

WARNING.
Should the Z300 PVT become faulty, please remove the battery and secure the instrument so that it cannot be used. Ship the unit back to emazys and report to us what happened.

1. Remove the battery before shipping the instrument.
2. The instrument must be securely packed in a suitable cardboard box.
3. Shipping back and forth is exclusively at the user's responsibility and cost.

Simply go to our website emazys.com and use the main contact form to report any need for service, repair, or calibration.

8 Shipping the Instrument for Calibration

Calibration is performed exclusively by emazys ApS or an authorised partner using factory-approved procedures, reference equipment, and dedicated test setups developed specifically for the Z300 platform. For new calibration, the instrument must be shipped to the following address in Denmark:

emazys ApS, Landbrugsvej 6, Hjallese, 5260 Odense S, Denmark
VAT DK33591985

The shipment must be clearly declared as a temporary return for calibration/repair, with no commercial value, to ensure that emazys ApS is not charged import duties, customs fees, or VAT. The commercial invoice and all shipping documents must explicitly state: "Temporary return for calibration—no transfer of ownership—no commercial value." The declared value should be limited to customs purposes only and must not reflect the original purchase price of the instrument.

Failure to declare the shipment correctly may result in customs charges, delays, or rejection of the shipment. Any import duties, VAT, or administrative fees incurred due to incorrect or incomplete declaration will be the responsibility of the sender.

After calibration, the Z300 will be returned to the customer with an official calibration certificate and shipped back under a corresponding temporary export declaration.

Customers are strongly encouraged to contact emazys ApS prior to shipment to obtain the correct shipping instructions and documentation template, ensuring a smooth and delay-free calibration process.

9 Storage and Disposal

9.1 Storage

If the Z300 PVT is taken out of service for a long time, we recommend removing the battery and storing it safely.

9.2 Disposal

The Z300 PVT should be returned to emazys for correct disposal. Remove the battery before shipping.

NOTICE.
DO NOT try to disassemble the instrument. It must be disposed of correctly according to EU regulations.

10 Support

If you need support, please contact emazys. Go to our website emazys.com and find updated contact information, e.g. phone numbers. This manual and our website are updated whenever a customer reports a new topic that must be attended to. The website also contains various articles with background information and videos to help you. Please carefully study this manual to discover the many features and capabilities we have put into this instrument. If you still need support after exploring the materials on your own, please do not hesitate to contact us.

NOTICE.
If you need support, use the contact form on our website. In this way, you ensure that we see your message. If you send a standard e-mail, it may end up in a spam folder or get blocked.

emazys

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