

# FernTech accessories data sheet

Complete your power system with essential components such as power meters, environment sensors, and signal transducers.

Designed to deliver real-time data on power consumption, system performance, and environmental conditions, these accessories seamlessly integrate with our Fern controllers and FernView portal to help you optimize your system and prevent costly downtime.

## Accessories list

### AC Power Meters

AC power meters allow you to measure the amount of power being consumed by your system. This information is crucial for identifying energy inefficiencies and optimizing your system's performance.



### Current Transformers

Current transformers help you monitor the electrical current flowing through your system. By measuring the current at different points in your system, you can identify potential issues and take corrective action before they cause downtime or system failure.



### DC Power Meters

DC power meters are used to measure the amount of power being generated by your renewable energy sources or DC loads. This information is critical for optimizing the performance of your system and ensuring that you are getting the most out of your renewable energy sources.



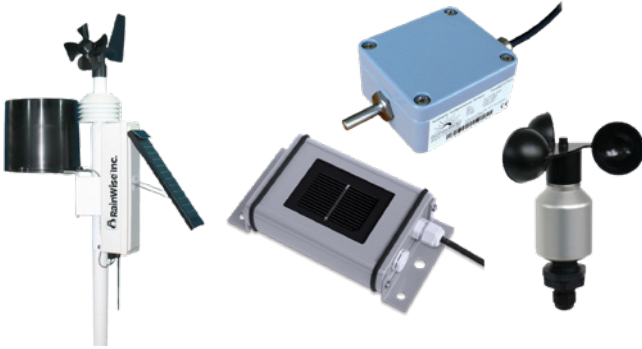
### GSM Modems

Achieve seamless remote monitoring and control of your energy system, even in remote or off-grid locations, with the use of GSM modems. These modems provide internet connectivity to your system, enabling real-time management and oversight.



## Weather Sensors

Weather sensors provide important information about the environmental conditions surrounding your energy system. This information can be used to optimize the performance of your system and reduce downtime caused by weather-related issues.



## Temperature Sensors

Temperature sensors provide critical data to help prevent overheating and optimize performance. In addition to monitoring temperature levels, these sensors are also utilized in control algorithms that fine-tune your system's operation for maximum efficiency.



## Humidity Sensors

These sensors measure the amount of moisture in the air or soil that is surrounding your system, enabling you to take proactive measures to maintain optimal conditions and system operation, for example, controlling irrigation systems to ensure proper moisture levels for crops and plants.



## Fuel Sensors

Monitoring fuel usage and quality through fuel sensors is essential for optimizing generator performance and reducing fuel costs. By ensuring that the fuel used meets industry standards, businesses can improve their overall operations and achieve greater efficiency.



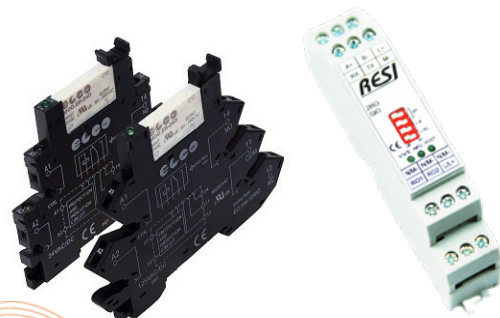
## Digital I/O

Digital I/O modules provide inputs and outputs that can be used to control and monitor your different type of sensors or equipment in the system.



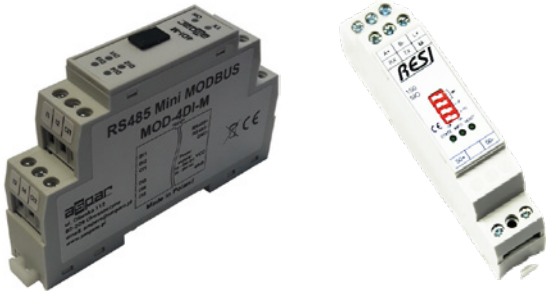
## Relay Outputs

Relay outputs are devices that allow you to control electrical circuits using digital signals. They can be used to turn on or off various devices in your energy system, such as pumps, fans, or lights, based on certain conditions or events. Relay outputs provide a simple and effective way to automate your energy system and ensure optimal performance.



## Pulse Counter For Water Or Gas Meters

Pulse counters provide valuable data on water or gas consumption and production within your energy system, enabling you to make informed decisions on a day to day basis. By utilizing this information, you can enhance the sustainability of your operations and promote cost savings in the long run.



## Water/Pressure Level Sensors

Water level sensors are very helpful to make informed decisions regarding the operation in a system with water usage. By optimizing the performance of your system through accurate water level monitoring, you can minimize water and power consumption as well as reduce losses.



## Door Sensor

Door sensors provide information about whether doors or access panels in your energy system are open or closed. This information can be used to prevent unauthorized access and ensure the safety of your system.



## Analog To Digital Transducers

Transducers enable the acquisition of data from sensors with analog output, such as those measuring tank levels, weighing machines, and other equipment. The ability to read and convert these analog signals into digital data provides valuable insights for optimizing performance and making informed decisions regarding system operation.



## Ethernet Switch

Industrial-grade Ethernet switches offer secure and reliable connectivity for devices within your network, ensuring seamless data flow and minimizing the risk of downtime.



## AC/DC And DC/DC Power Supplies

Our energy systems are equipped with robust and reliable AC/DC and DC/DC power supplies that have undergone rigorous testing to ensure consistent and stable power delivery.



## Voltronic Modbus Card

The Voltronic Modbus card allows you to connect a voltronic inverter to Odyssey data logger or controller via serial port.

