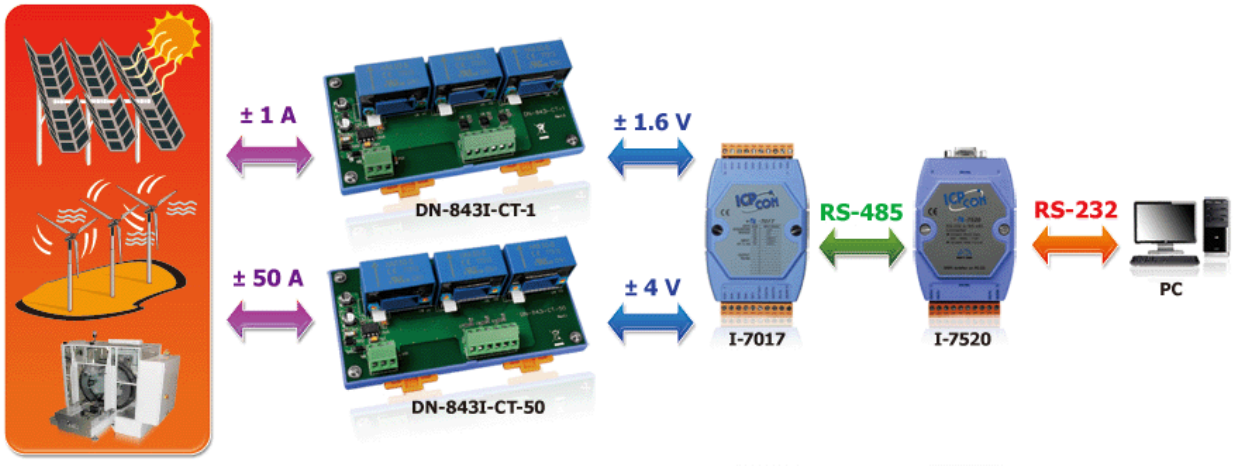
Renewable Energy Monitoring Equipment

Renewable resource is the energy source that can be replenished. It is replacing traditional energy source over time. Renewable energy generally has no pollution unlike fossil fuels. The most common examples include solar, wind, geothermal, and hydropower. Those resources are unlimited and have health and environmental benefits. Although renewable energy are available anywhere and anytime, the output power of renewable energy is intermittent, not stable and vary depends on location or periods of time. There are many limitations on operating renewable energy planet. For example, solar panel cannot generate power when the sun doesn't shine or at night; Wind mill cannot generate power without wind. The power output must be monitored consistently to ensure power doesn't run out on consumer.

ICP DAS designed Voltage Attenuator and Current Transformer specifically for measuring high voltage input and high current input coming from renewable power equipment.



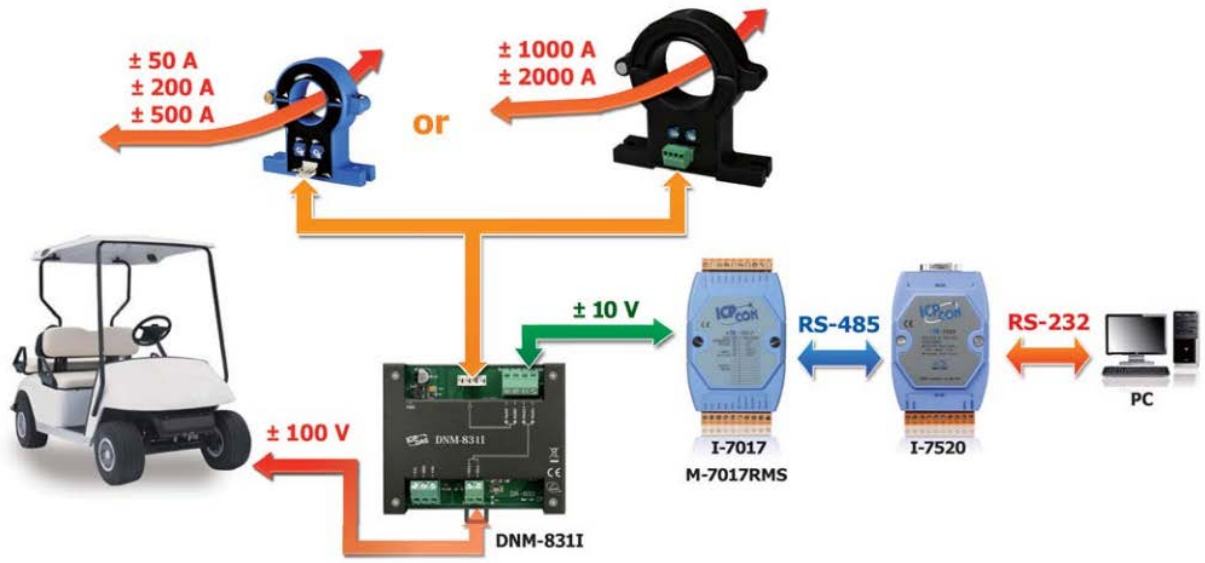
DNM-831I-100V-1000A

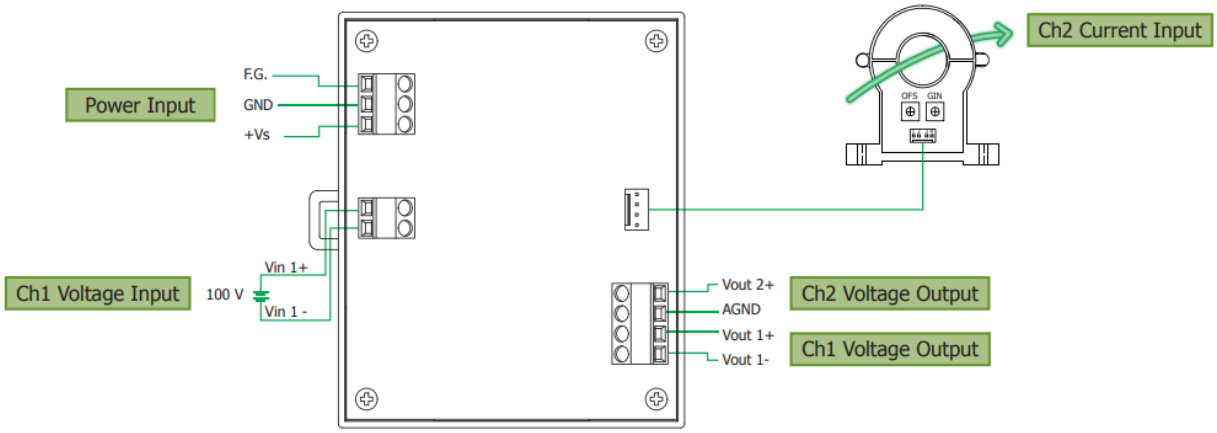
https://www.icpdas-usa.com/current_input_sensor.html#

With the DNM-831I-100V series, ICPDAS has developed an ideal solution for Renewable Energy Monitoring applications. The modules of the series are able to measure direct and alternating voltage as well as direct and alternating current.

The integrated voltage attenuator reduces input voltages from ±100 VAC and VDC to a standardized output voltage of ±10 VAC or VDC. Currents from 50A to 2000A can be detected by the supplied current transformer and also reduced to ±10 VAC or VDC output voltage. This enables versatile data processing via analog input modules such as I-7017, I-87017, M-7017RMS and I-87017W-RMS from ICPDAS. The inputs of the modules are protected against overvoltage up to 3000 VDC.

Depending on the environmental conditions, all variants of the product series are available in metal or plastic versions. With the DNM-831I-100V series from ICPDAS you can easily, quickly and cost-effectively standardize the energy signals and thus integrate them into your application.





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If you have other Renewable Energy Monitoring Equipment requirements or have some questions, we can certainly help you to choose the best solution. Please call our technical support team at (310) 517-9888 X102