Adding TPDIN-Monitor-WEB2 to RemotePro® System

**Application Summary:**
Customers with RemotePro® solar power units will want to add remote monitoring and control to their systems. This will allow them to remotely monitor the performance and condition of their remote power system without the need to travel to the site.

**Solution:**
Using the TPDIN-Monitor-WEB2 they can measure the battery voltage and see the charge rate of the battery bank. They can also monitor the temperature inside the enclosure. In addition they will be able to power cycle reboot connected equipment automatically if it loses connectivity, which normally will fix connectivity issues.

**Details:**
We will show the simplest and most straightforward connection between the RemotePro™ System and the TPDIN-Monitor-WEB2. Since the TPDIN-Monitor-WEB2 is a highly flexible measuring and control system, exact application variants are endless.
Set Ping Control to ping a critical IP (We used 192.168.1.20 in this example). If ping fails 5 times, the TPDIN2 will automatically power cycle Relay 1 which is connected to the PoE Switch.
Setup email alerts on the Alerts Page. Set an alert when battery voltage reaches 22.5V so that you will be alerted before the solar controller turns off the load as part of its low voltage disconnect function. The TPDIN-Monitor-WEB2 supports SSL encrypted email servers such as GMAIL. You can also send a periodic alert, maybe every month, so you know the system is working.

**Conclusion:**

By using the low cost TPDIN-Monitor-WEB2 as a remote monitor and control system an operator can remotely monitor his field equipment and minimize truck rolls. He can also get automatic alerts when something is wrong to allow him to take corrective action before the system goes down in order to prevent service shutdowns. The system will pay for itself if one incident is prevented by having advance information remotely.

The TPDIN-Monitor-WEB2 is a flexible tool which will allow monitoring of up to four voltages and four currents and control of up to four multipurpose relay switches.

Note: An internet connection is required to be able to send email alerts.