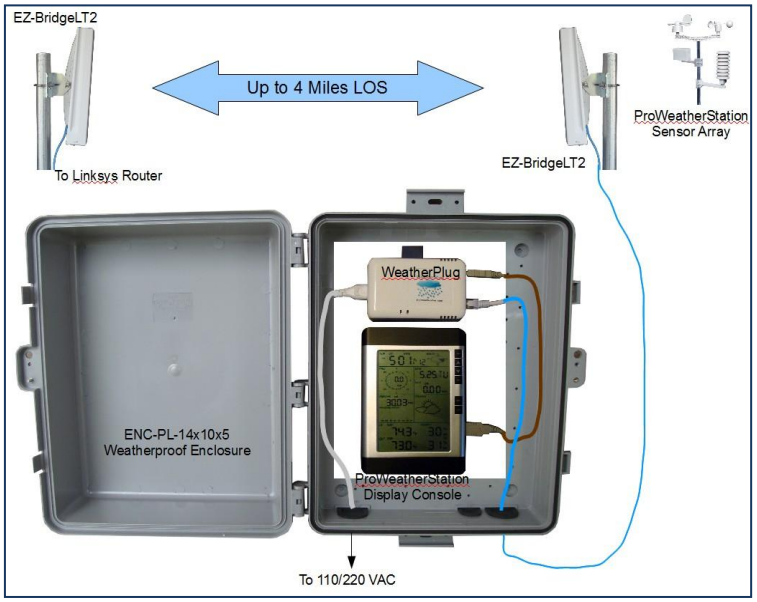
ProWeatherStation Application Whitepaper

Application Summary:

A customer wanted to monitor the weather and specifically wind speed and direction from a remote site 3 miles from his office. He had AC power on the site but no internet connection or computer at the site.

Solution:

The customer installed a ProWeatherStation at his site along with a WeatherPlug pico-computer from RainManWeather. The WeatherPlug is a tiny pico-computer which has a USB and Ethernet port and is pre-programmed to upload weather data to WeatherUnderground or other internet sites. The ProWeatherStation display console has batteries installed for backup but it gets primary power from the WeatherPlug USB port so battery life is greatly extended from the normal 1 year. The ProWeatherStation outdoor sensor array runs for 2 years on 2 AA batteries so this wasn't considered an issue.



The ProWeatherStation display console and WeatherPlug microcomputer were mounted in a Tycon Power Systems ENC-PL-14x10x5 weatherproof outdoor enclosure. To connect the WeatherPlug to the internet for data upload, the customer used an EZ-BridgeLT 2.4GHz point to point wireless bridge from e-zy.net. One side of the bridge was connected to the Ethernet port of the WeatherPlug and the other side was connected to a Linksys wireless router at the customers office just under 3 miles from the site.

List of Materials:

Item	Where to Buy	Cost
ProweatherStation	proweatherstation.com	$158.95
WeatherPlug pico-computer	rainmanweather.com	$199.95
ENC-PL-14x10x5 Weatherproof Enclosure	tyconpower.com	$ 69.95
EZ-BridgeLT2 Point to Point Wireless Bridge	ez-bridge.com	$199.00
	Total	$627.85

Conclusion:

For the same price as a single high end weather station, the customer was able to setup a remote weather station 3 miles from his office and data log automatically to the Internet. He could connect to the WeatherPlug device directly thru his browser or view historical data via the weatherunderground.com site where his data was uploaded in real time and stored. The setup allowed the customer to monitor the weather parameters at his remote site from his office or anywhere in the world when connected to the internet.

For more information visit tyconpower.com or proweatherstation.com