APPLICATIONS

WATER HEATER LOAD SHEDDING

The biggest AC power consumers in your home are your HVAC system and water heater (if electric). During the day, when not at home, it is a good idea to turn off the breaker and not have your hot water tank constantly producing hot water and consuming energy.

This can actually become a nuisance to remember, and forgetting to turn it back on in the evening (especially for cooking or if you have children who need bathing) can be a problem.

A simple solution would be to have some sort of timer to cycle the unit on/off. But not all timers can tell the difference between weekdays and weekends. And what about Holidays and days you are out sick.

Solution: Use an XPFM Fixture Module to supply 120VAC to a Contactor (rated for the current draw listed on your water heater). The XPFM will act as the Controller supplying a trigger voltage to the Contactor. When energized, the Contactor will supply 240VAC to operate your hot water tank.

Set the XPFM to an X10 House and Unit Code that will be transmitted from the XPPC Seven Day Timer. Program the Timer to deactivate the XPFM every Mon-Fri at 8:30am and turn back on at 4:30pm (assuming you work until 5:00pm).

This would allow the heater to make sufficient hot water for the moment you return home. Program the Timer for Saturdays and Sundays as your schedule requires.

At any time when the XPFM is ON or OFF, any X10 PRO Controller set to the same House Code (and pressing the proper Unit Code) can conveniently activate or deactivate the XPFM directly controlling hot water supply during non-programmed events.

If you are coming home during an unscheduled time, you can call ahead to the PPH10 PRO Phone Controller and activate the hot water supply through the XPFM Receiver.

If you are utilizing an alarm panel that has the X10 protocol built in, then hot water tank load shedding could be another energy Management function transmitted from the panel when armed in the away mode.