

## Intelligent reduction of the peak demand.

### Application

Using Maximum Demand Controller the maximum real power can be reduced by short term disconnection of non essential loads, the controller allows time or event dependent switching of these non essential loads.

The controller detects the complete load of the electrical supply to avoid a peak demand. Furthermore, the device is also designed to measure and store all electrical quantities including current and power mean values.

### Principle

Based on the measurement the total real power, mean value, instantaneous values, and correction power are calculated.

If the device recognizes a possible exceeding of the allowed target peak value it check the necessity to switch off the non essential loads with respect to the programmed data.

The purpose is to minimize the affect to the process by switching as rarely as possible, but nevertheless keep the programmed target.

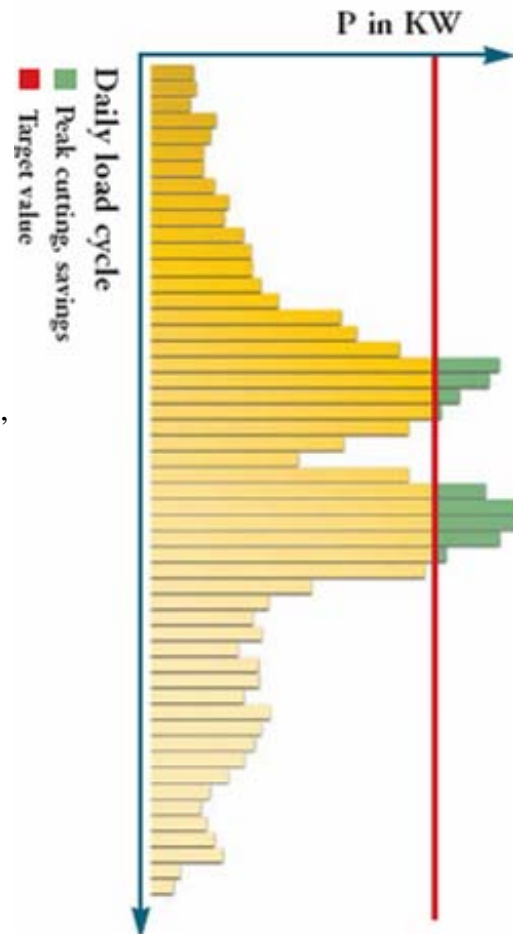
Depending on the version of the controller up to 32 disconnection stages are available.

The following parameter can be programmed for each switching stage:

- **Blocking Time:** runs at the beginning of the measuring period and avoids disconnection during the beginning of the measuring period caused by short power peaks.
- **Off Period:** time between switching procedures. As disconnection do not have direct results in the network, the delayed reaction can be respected.
- **Priority:** each disconnection stage can be assigned a priority from 1 to 32.
- **Connection Load:** the Load in KW of each disconnection stage.
- **Minimum Connection Time:** defines how long must be the load connected before it disconnects again.
- **Minimum Disconnection Time:** defines how long the load must be connected until it disconnects again.
- **Maximum Disconnection Time:** defines longest time of disconnection for the respective load.
- **Availability:** the availability of the load can be programmed in percentage.

### ADVANTAGES:

- **NO NEED FOR A GENERATOR TO RUN ALL THE LOADS AT PEAK DEMAND HOURS.**
- **NO MORE PEAK PENALTIES.**
- **NO RUNNING COST.**



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