



DSX Access Systems, Inc.

HVAC Zone Control

After Hours HVAC Zone Control

The WinDSX HVAC After Hours Zone Control feature can be used in multi-tenant buildings to control and monitor the after hours use of heating and cooling systems in each tenant space. This control gives the Administrator the ability to define the amount of extra consumption that each tenant is responsible for. This information can be used to bill the tenants for the correct amount of usage.

For example, a tenant has heating and cooling from 7:00 AM to 6:00 PM as condition of the lease, but any other usage can be billed as an extra charge. At the specified time every day, the HVAC would automatically shut down and only be turned back on by the tenant using their access code or card at a designated keypad or reader. Once enabled, the tenant's HVAC zone would then be under thermostat control for a preset amount of time. At the end of that time period, the HVAC would shut down until the tenant uses their code or card again, or until the unit automatically returns to thermostat control according to its Time Zone. The tenant can enable the HVAC from one second to over nine hours (546 min.). The HVAC zone control relay can always be overridden from the PC.

The Relay Outputs that control the HVAC zones in each tenant space can be programmed with up to four different Time Zones each. The Time Zones will allow for automatic control, based on time of day and day of week, including a Holiday schedule.

This type of control not only keeps units from running when there is no one present in the tenant space, but also provides a means to bill the tenant for extra use.

The HVAC Control feature operates in conjunction with all other WinDSX features simultaneously. Using the same system for Access and HVAC Zone Control allows for a cost-effective implementation.

To accomplish After Hours HVAC Zone Control, a reader or keypad must be designated at each tenant space or in a common area to be shared by multiple tenants. Also required is one Relay Output per HVAC zone to be controlled. The total number of readers and Outputs determine the number of controllers and hardware required.

History reports can be run to find out how many times the HVAC was enabled after hours. The total number of HVAC "enables" applied to the amount of time it is programmed to turn on for would be the amount of extra use by the customer.

Reports of the "HVAC Enables" can be printed for billing or record keeping purposes. All transactions are recorded to the hard disk for retrieval upon demand.