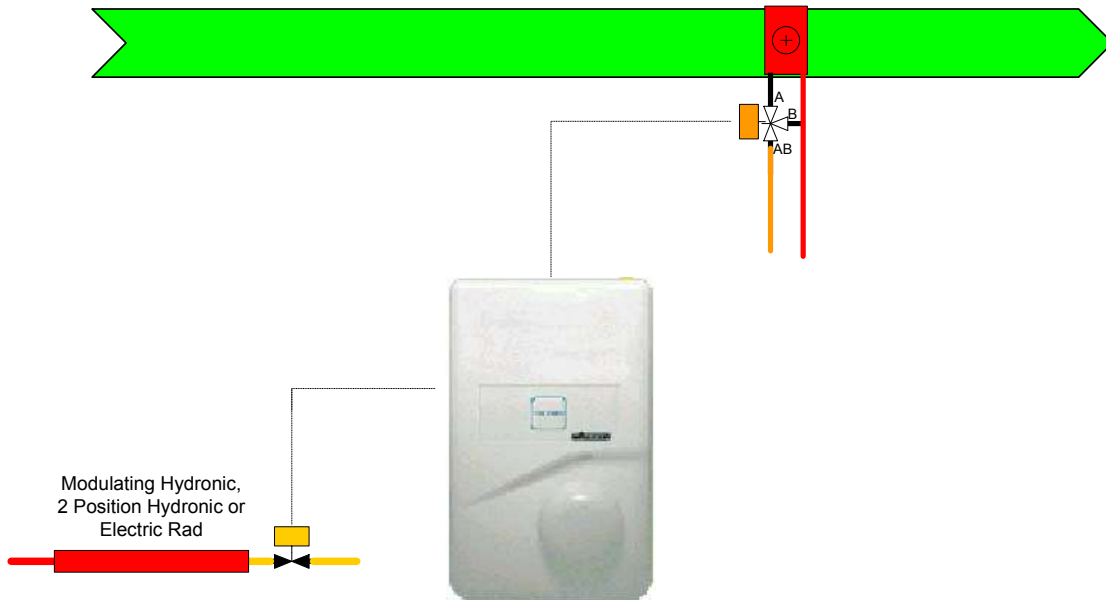


## Radiation & Reheat Controller



### Description

Electronic controller provides affordable, but very stable and energy efficient control of radiation zones, reheat zones or combination radiation/reheat zones. Controller can handle either two position or modulating valves or electric heat. Controller can be integrated into an Empire Controls DDC system, either at time of installation or at a later date. Can be configured for operation in Celcius or Fahrenheit. LCD, setpoint adjustment knob, time of day scheduling/Real Time Clock/Mode Override features are optional. A stat with Time Clock can serve as a master for a group of stats without Time Clock. Controller supports an optional tamperproof remote armored thermostat for rough and tumble locations.

### Guide Specification

#### Products

##### 2.x Radiation/Reheat Controller Kit

Radiation/Reheat Controller, Model BRN-RR complete with space sensor, optional setpoint adjustment knob, modulating control valve assemblies, transformer and without optional liquid crystal display as manufactured by Empire Controls Limited of Woodbridge, Ph 905-264-7282, Fax 905-850-8564, [empire@empirecontrols.com](mailto:empire@empirecontrols.com). Stats incapable of controlling modulating valves or network communications are not acceptable.

### Execution - Sequence of Operations

#### 3.4.x Radiation and Reheat Zones

The controller shall modulate the radiation and reheat valves by means of proportional + integral control algorithm as required to maintain space temperature at setpoint. Radiation valve shall open fully before reheat valve starts to open. (Staging and overlap can be field configured by technician.)

Minimum and Maximum Setpoints shall be technician adjustable.

Night Setback is not implemented.

Mount stat on wall, and provide 24 volt power. Connect valves to controller. Check operation of valves.

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