

RadMaster®

CC765 Programming Manual

Radiator Zone Sensor with Window Open and Card Entry

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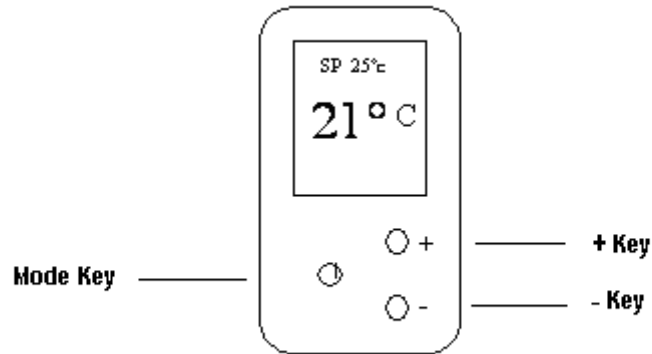
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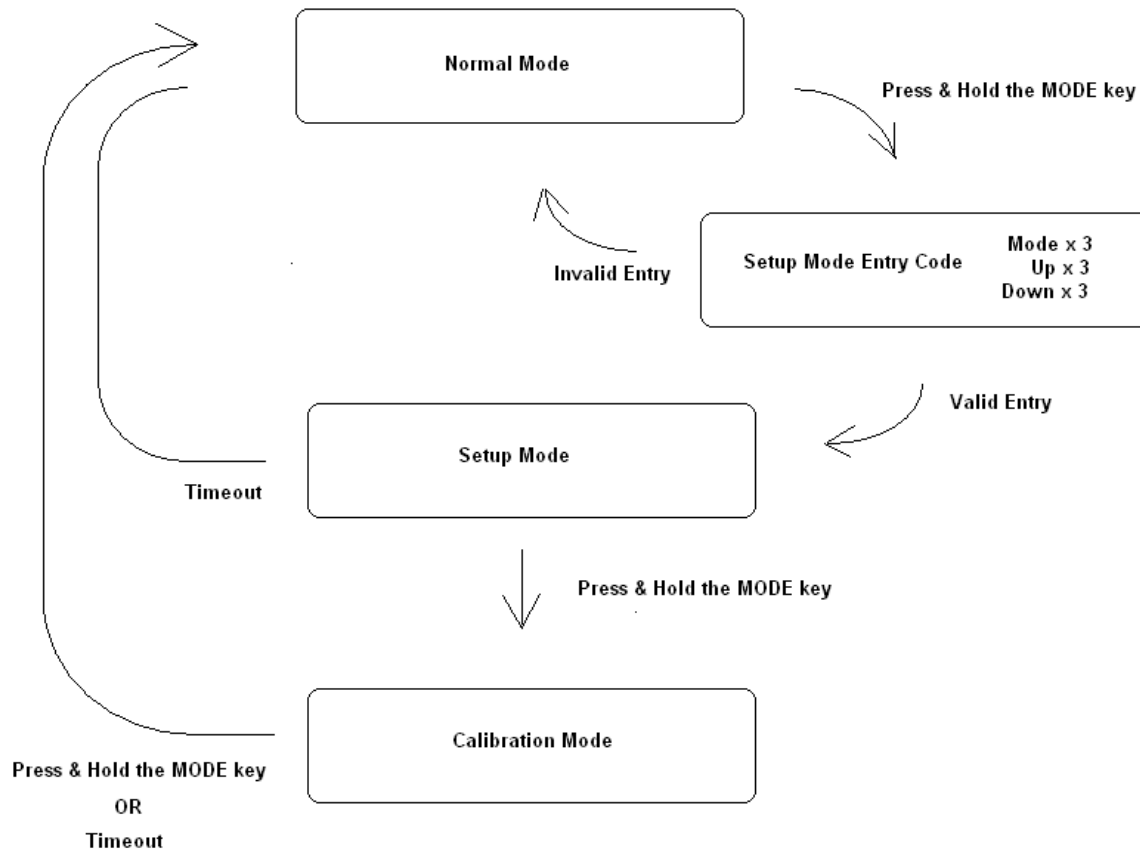
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Introduction

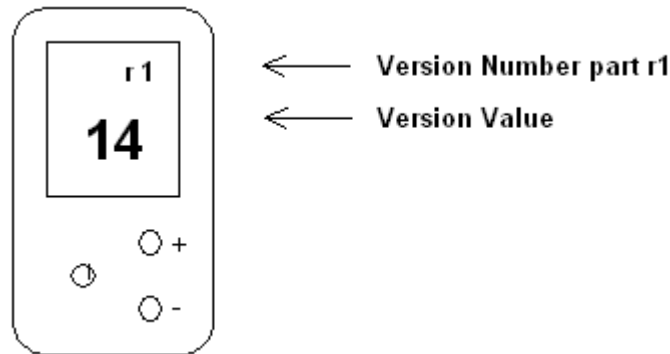
The cc765 operates in conjunction with the cc775 (IO module- 2 Relay module) to provide zone control with “window open” and “card in” functionality.



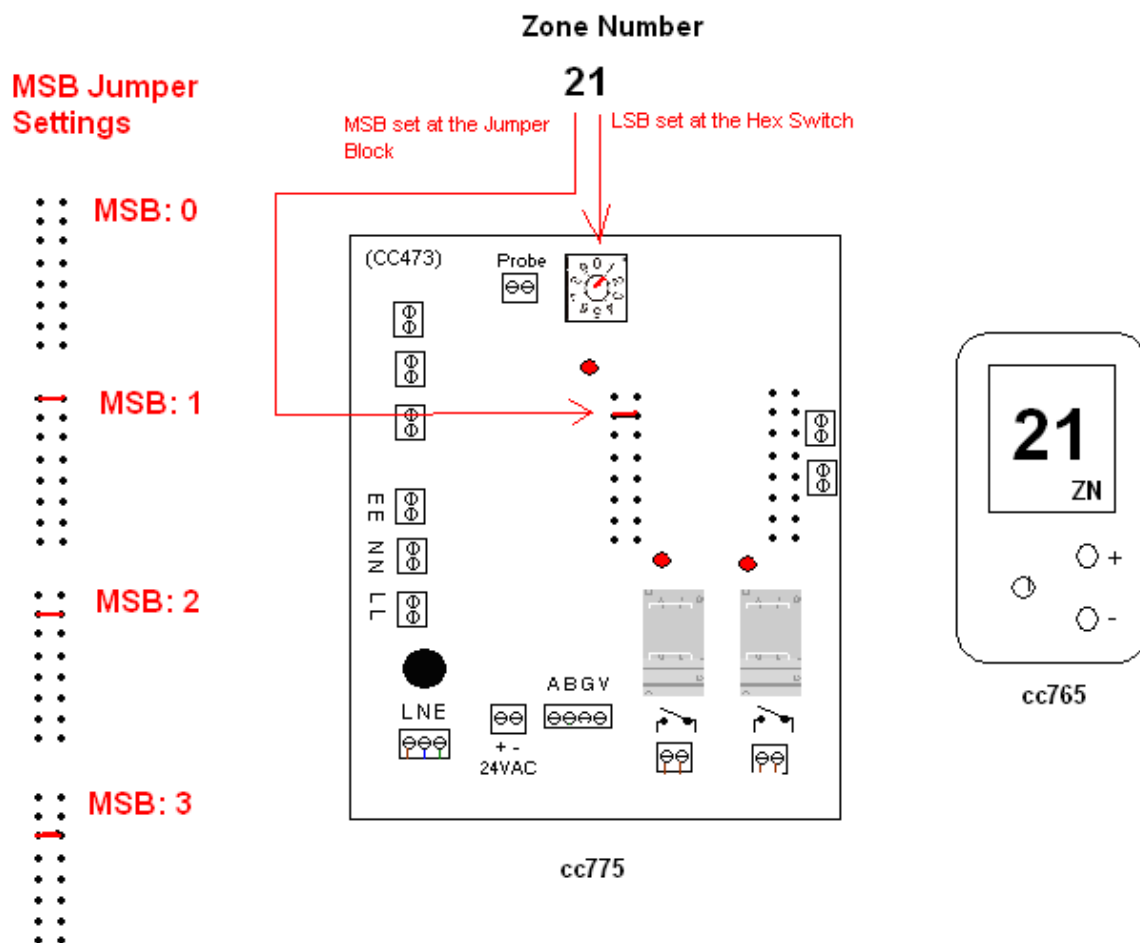
There are 3 Modes of Operation: Normal, Setup and Calibration. Navigation between the modes is illustrated as follows:



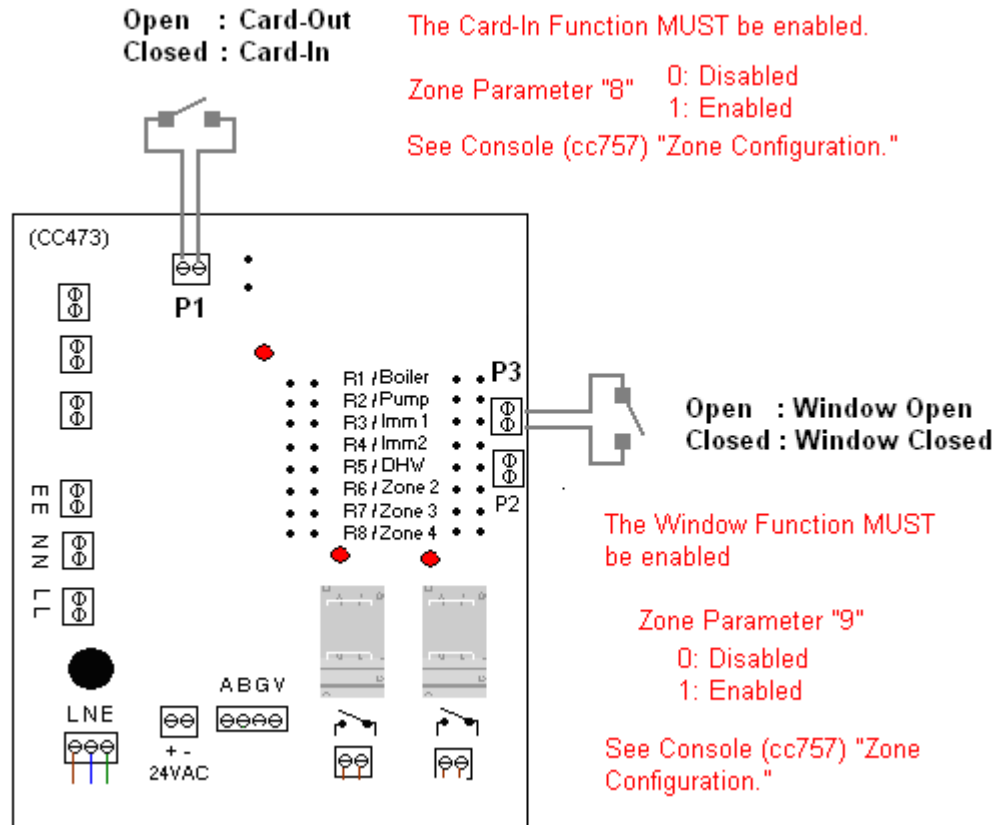
Version data is displayed in the top right corner of the display when pressing the mode key during the setup entry code mode. The version information is r1.r2.r3



The I/O cc775 must be set to the same zone address as the sensor.



P1 Terminal Block is the Window Open Input and P3 Terminal Block is the Card-In Input:



Setup Mode of Operation

To Enter the Setup Mode:

- 1) Press and hold the Mode key until “r1” appears in the to right hand corner.
- 2) Press the Mode key 3 times
- 3) Press the UP key 3 times
- 4) Press the DOWN key 3 times

The following table identifies the possible sensor types supported and the associated parameter where applicable.

Press the MODE key to change field. Press the UP/DOWM keys to change a field value.

Parameter	Symbol	Description Sensor Type (St)	Range
Zone	ZN	Zone Number 0 – zone not used	0-32
Radiators	rd	Number of Radiators in the zone.	0-10
Demo	DO	Demo Enable 0: Function Disabled 1: Function Enabled	0,1
Test	TS	Test Enable 0: Function Disabled 1: Function Enabled	0,1

Normal Operation Mode

Communication must be established before key functions are enabled.

Set-Points are returned to the console (default) settings at 3AM

Zone Calling Status

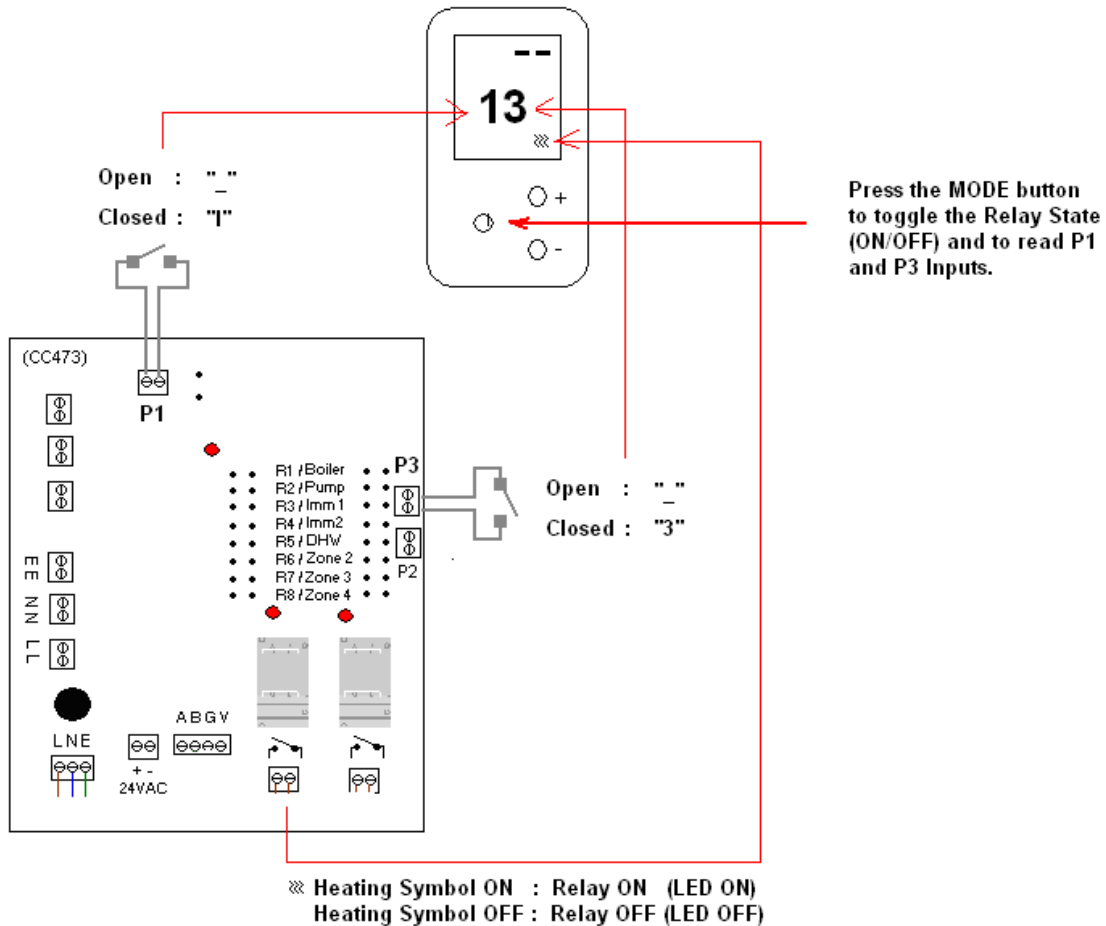
Zone State	Zone is calling when:
ON	Air Temperature is less than the Base Set-point: <div style="margin-left: 40px;"> Card Out - Air Temperature is less than the Check-in set-point Normal Scheduled ON State: Base Check-In Set-point Schedule SP2: Set-Point 2 Schedule SP2: Set-Point 3 </div> <div style="margin-left: 40px;"> Card In - Air Temperature is less than the Card-in set-point If the sensor is ON as a result of manually setting the zone state at the console then the base set-point is used. </div>
OFF	Air Temperature is less than the OFF set-point
Standby (Stop)	Air Temperature is less than the Standby set-point
DISABLE	Air Temperature is less than the frost protection set-point
Override ON	Air Temperature is less than the Card-In Set-Point <div style="margin-left: 40px;"> Advance Must be enabled (see cc757; zone Parameters) Card in Must be enabled (see cc757; zone Parameters) Card Must be In (cc775, p1 Closed (Jumper in)) </div>
Override OFF	Air Temperature is less than the OFF set-point. <div style="margin-left: 40px;"> Advance Must be enabled (see cc757; zone Parameters) Card in Must be enabled (see cc757; zone Parameters) Card Must be In (cc775, p1 Closed (Jumper in)) </div>
Optimization C1	Air Temperature is less than the set-point minus the C1 optimization offset. See <i>CC-RM-UM Optimization</i> .
Optimization C2	Air Temperature is less than the set-point minus the C2 optimization offset. See <i>CC-RM-UM Optimization</i> .

Optimization C2 Air Temperature is less than the set-point minus the C2 optimization offset. See *CC-RM-UM Optimization*.

Optimization CA Air Temperature is less than the set-point minus the CA optimization offset. See *CC-RM-UM Optimization*.

Test Mode of Operation

The cc765 will be shipped in the Test Mode of Operation. This mode of operation allows the installer to confirm that the cc765 sensor properly communicates with the cc775 I/O controller, turn ON the relay and read the inputs.



When the Mode button is pressed the Sensor reads the state of the P1 and P3 inputs and toggles the state of the Relay output. A dash is displayed for the left digit if P1 is open and a "1" if it is closed. A dash is displayed for the right digit if P3 is open and a "3" if it

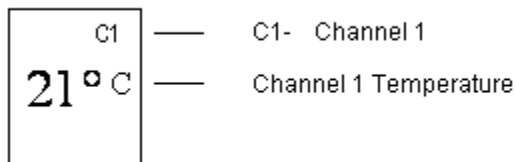
is closed. The heating symbol (☼) is displayed when the relay is ON. The relay LED will illuminate when the relay is ON.

The sensor is returned to the normal mode of operation on the first communication from the console. For this reason the Test Mode of Operation can only be used when the console is NOT in the system.

The test Mode may be turned ON at the sensor (see Setup Mode of Operation). However, the console must be set to the “Link” mode, which suspends communication (see cc757 manual), in order to test while the console is in the system.

Calibration Mode of Operation

The Calibration mode of operation allows calibration of channels 1 temperature. The display appears as follows when calibrating channel 1:



The '+' and '-' keys increment and decrement a temperature calibration offset by 0.5 Deg C.