



4iE Smart Thermostat

Crestron Driver User Guide

Introduction

This driver has been designed to provide two-way control of WarmUp underfloor heating systems employing the 4iE Smart Thermostat, via TCP/IP.

The package includes a demonstration file in smw format to aid with integration into a Crestron project. Additionally, touch panel designs have been created; these can be used for demonstration purposes and for compatibility testing.

This Crestron module will work on 3 Series processors with access to the Internet.

There are two modules included in the package:

Comms

This module has three purposes:

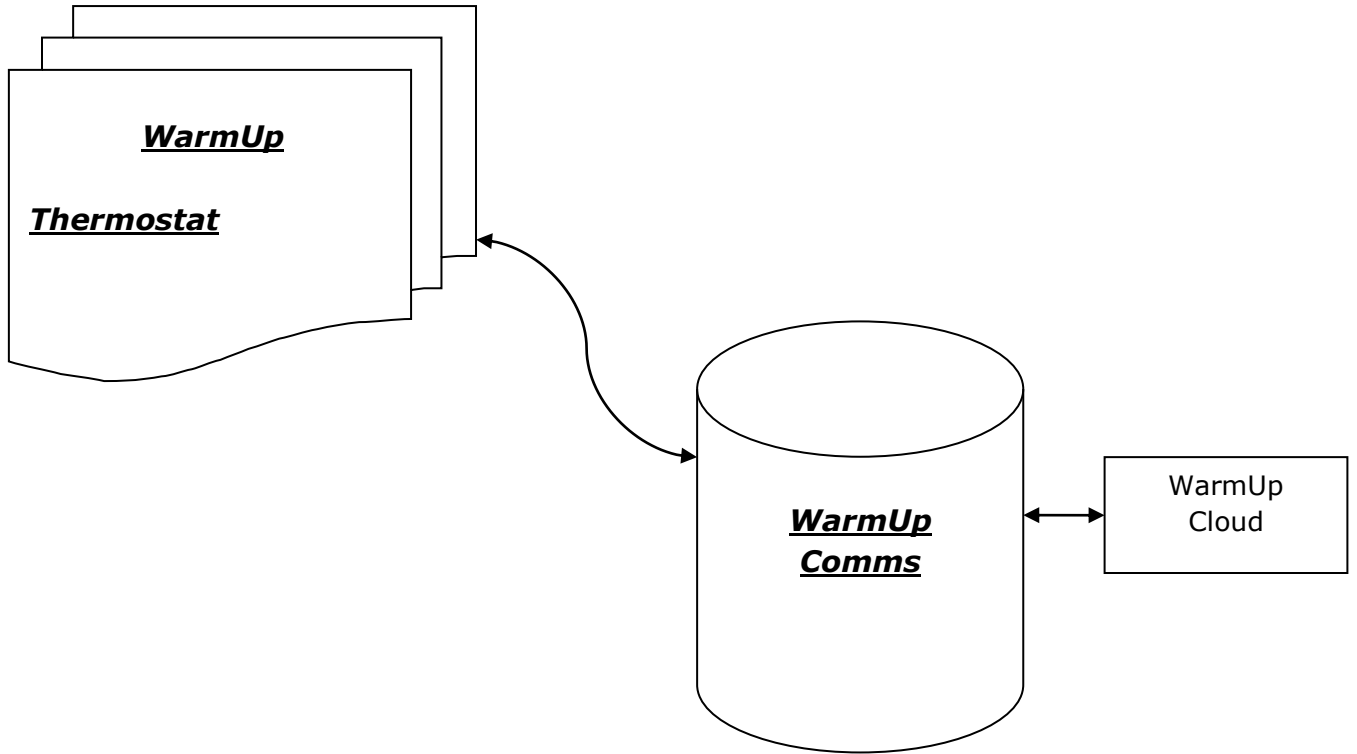
- Sending and receiving commands to/from the WarmUp web service
- Routing feedback to the Thermostat Modules
- Controlling Holiday Mode

Thermostat

- Controlling the temperature Set Point
- Setting each thermostat's mode
- Feedback of mode, set point and temperature

Versions

Crestron Module



1x Comms Module required per Crestron program
1X Thermostat Module required per 4iE thermostat installed

Module Definitions

WarmUp {Model} Comms VX XX.umc

The central module handling all communications between Crestron and the Warmup devices.

Signal Name	Type	Description
COMMS_TX	Input	Signal FROM Thermostat modules
HOLIDAY_OnOFF	Input	Sets the Holiday Mode - High for On - Low for Off
HOLIDAY_DAYS	Input	Holiday Mode time period, in days
HOLIDAY_TEMPERATURE	Input	Temperature set point when in holiday mode
COMMS_TX	Output	Signal To Thermostat modules
HOLIDAYS_ACTIVE	Output	Feedback of Holiday Mode - High for On - Low for Off
EMAIL	parameter	The WarmUp account email address
PASSWORD	Parameter	The WarmUp account password
Default Day	parameter	Default Holiday Mode time period, in days (until HOLIDAY_DAYS is changed)
Default Temp	parameter	Default temperature set point when in holiday mode (until HOLIDAY_TEMPERATURE is changed)

WarmUp {Model} Thermostat VX XX.umc

Module for thermostat.

Signal Name	Type	Description
COMMS_RX	Input	Signal FROM Comms modules
SETPOINT	Input	Set Point Value (Max 30, Min-15)
TEMPERATURE_PLUS	Input	Increases the set point value
TEMPERATURE_MINUS	Input	Decreases the set point value
MODE	Input	0 = Frost Mode, 1 = Fixed Mode
COMMS_TX	Output	Signal TO Comms modules
CURRENT_SETPOINT	Output	Current Set Point * 10
sCURRENT_SETPOINT	Output	Current Set Point
CURRENT_TEMPERATURE	Output	Current Temperature * 10
sCURRENT_TEMPERATURE	Output	Current Temperature
MODE FB	Output	0 = OFF 3 = FIXED 4 = FROST 5 = HOLIDAY
INCREMENT	Parameter	Value of increment when holding plus and minus

ROOM NAME	parameter	Thermostat room name (case sensitive)
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