REV 1

CC200 API CLIENT

REV 20.1.17+

CRIOSU CONTROLS

Table of Contents

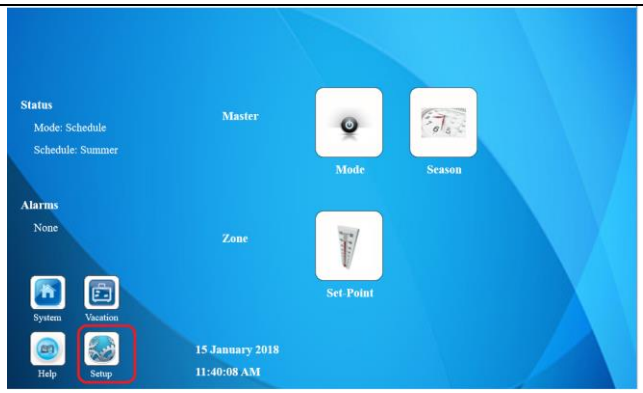
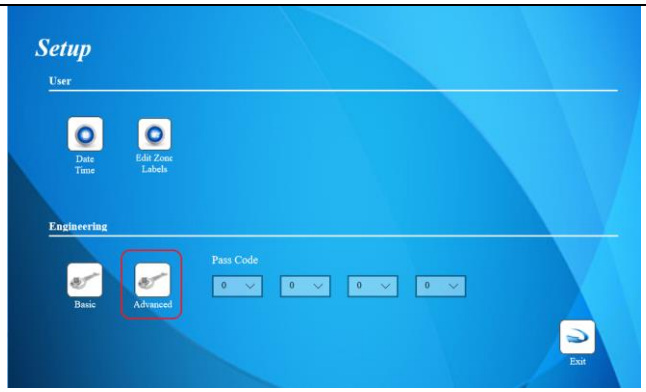
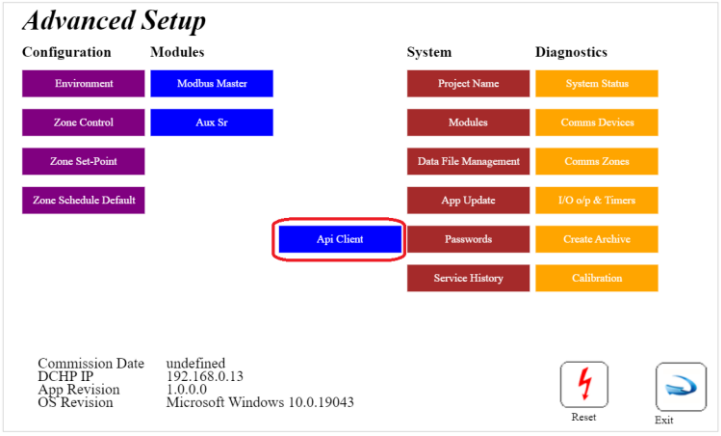
Introduction

Api Client connects to servers providing REST services for Geo Weather Compensation and Api Enabled Modules.

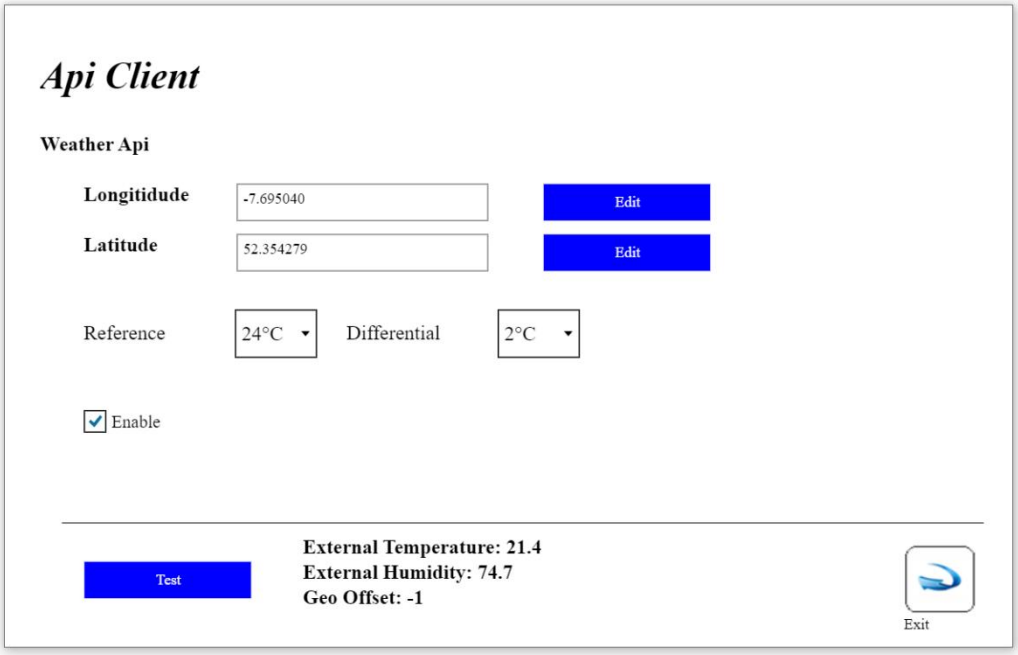
Geo Weather Compensation

Geo Weather Compensation adjusted a zone setpoint based on the outside Temperature.

Access the "App Client" Setup Screen

Step 1.	Press "Setup" on the Home Screen	
Step 2.	Press "Advanced" on the Setup Screen	
Step3	Press "Api Cient" in the Advanced Setup Screen	

"App Client" Setup Screen

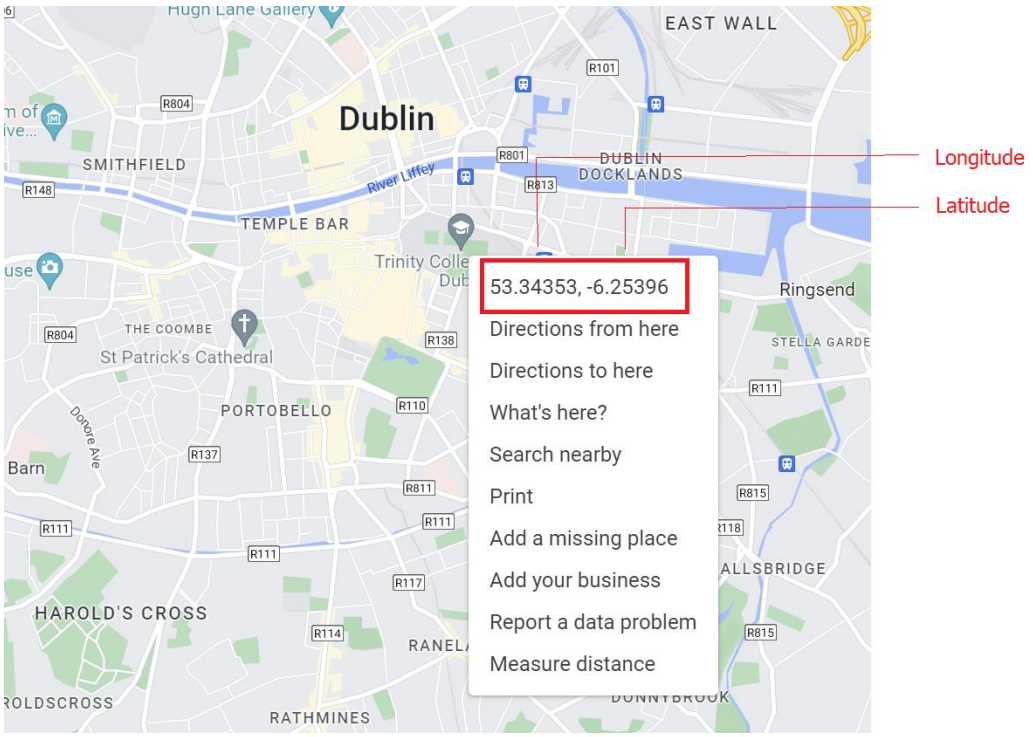


1. Longitude and Latitude

Longitude and Latitude are required to determine the exact location of the system. Use Google Maps to find the location

On your computer, open Google Maps (https://www.google.ie/maps)

Right-click the place or area on the map. This will open a pop-up window. You can find your latitude and longitude in decimal format at the top.



2. **Reference Temperature**

   The temperature against which the outside temperature is compared in order to set the temperature adjustment to the Schedules Zone Setpoint.

3. **Differential**

   The temperature adjustment is applied when the outside temperature is greater than the reference temperature plus the differential.

4. **Enable**

   Check to enable Geo Weather Compensation.

Operation

Outside temperature is read every 30 minutes.

The Zone Setpoint is adjusted if the Outside Temperature greater than Reference Temperature plus the Differential or less than the Reference Temperature minus the Differential.

When Outside Temperature is greater than the Reference Temperature plus the Differential

Offset = Outside Temperature - (Reference Temperature + Differential)
Zone Setpoint = Schedule Zone Setpoint + Offset

e.g Outside Temperature: 26°C
Reference Temperature: 21°C
Differential Temperature: 4°C
DeadBand: 2°C
Setback: 4°C
Zone Setpoint: 20°C

Offset = 26°C - (21°C + 4°C)
Offset = 1°C

<u>When Heating is Scheduled ON</u>
Heat when Zone T is less than 21°C (**20°C**+1°C)
Cool when Zone T is greater than 23°C (**20°C**+2°C+1°C)

<u>When Heating is Scheduled OFF</u>
Heat when Zone T is less than 17°C (**20°C** -4°C +1°C)
Cool when Zone T is greater than 19°C (**20°C**-4°C+2°C +1°C)

When Outside Temperature is less than the Reference Temperature minus the Differential:

Offset = (Reference Temperature - Differential) - Outside Temperature

Zone Setpoint = Schedule Zone Setpoint + Offset

e.g Outside Temperature: 16°C
Reference Temperature: 21°C
Differential Temperature: 4°C
DeadBand: 2°C
Setback: 4°C
Zone Setpoint: 20°C

Offset = 16°C - (21°C- 4°C)
Offset = -1°C

When Heating is Scheduled ON
Heat when Zone T is less than 19°C (**20°C**-1°C)
Cool when Zone T is greater than 22°C (**20°C**+2°C-1°C)

When Heating is Scheduled OFF
Heat when Zone T is less than 15°C (**20°C** -4°C -1°C)
Cool when Zone T is greater than 17°C (**20°C** -4°C+2°C -1°C)

Zone Screen