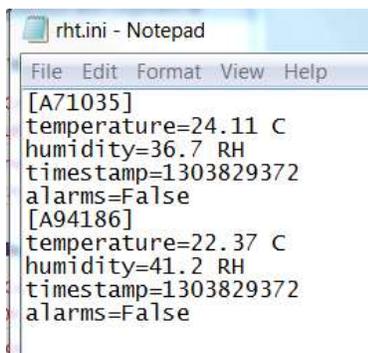


Read Dewk Temperature and Humidity from rht.ini

Overview

A pair of 1620A DewK are used in Logware III, which logged the temperature and humidity readings in “C:\rht.ini” file in the following format:



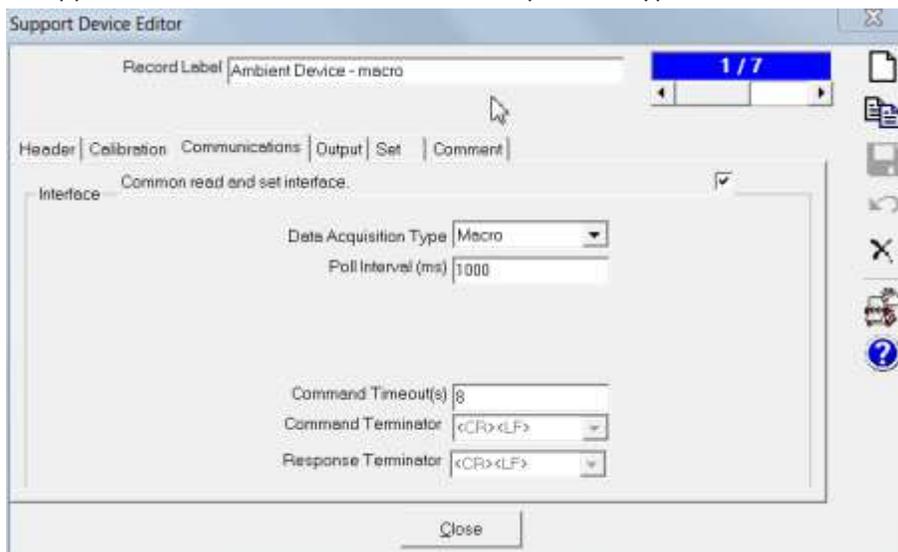
```
rht.ini - Notepad
File Edit Format View Help
[A71035]
temperature=24.11 C
humidity=36.7 RH
timestamp=1303829372
alarms=False
[A94186]
temperature=22.37 C
humidity=41.2 RH
timestamp=1303829372
alarms=False
```

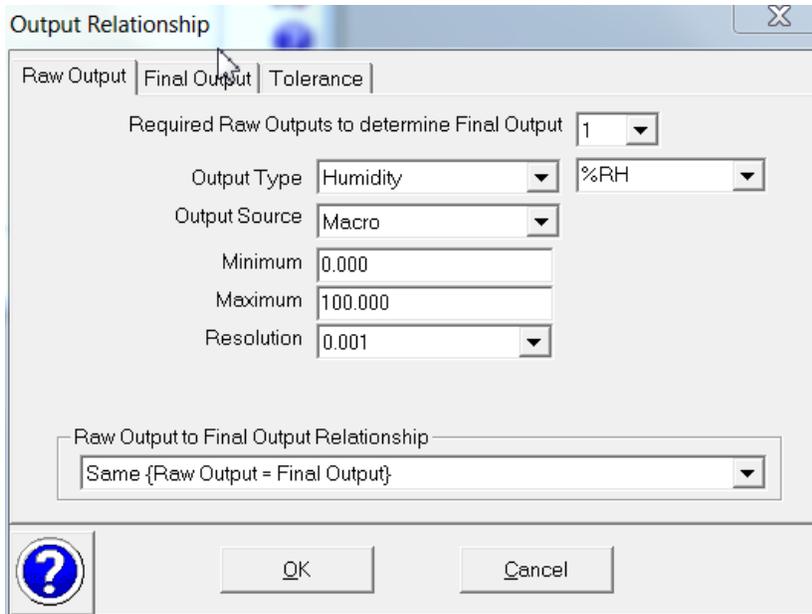
While Logware is running, COMPASS intends use the temperature and humidity data logged in the file as ambient temperature and ambient humidity in the test.

The scheme is to use COMPASS macro to read the rht.ini file, get the readings from the file and pass the values to ambient devices in COMPASS.

Device Setup

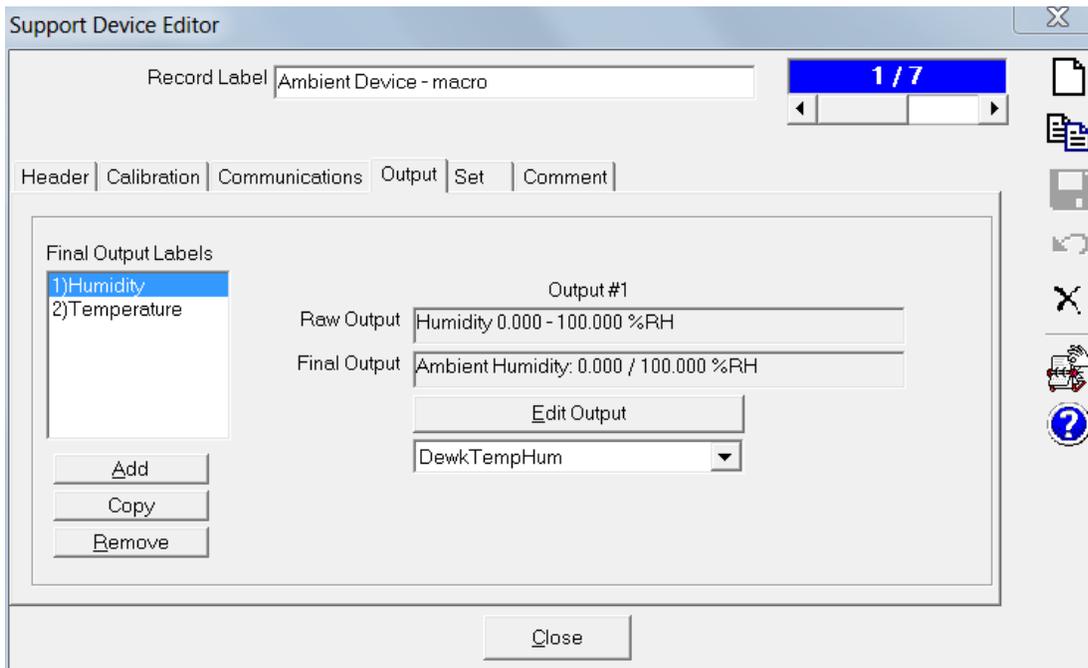
A Support Device with “macro” as “Data Acquisition Type” is needed.





The device has two Output: Humidity and Temperature.

Each device has Interface macro “DewkTempHum” selected under “Edit Output” button. The macro needs to be created first in Macro Editor.



Interface Macro DewkTempHum

```
Function DewkTempHum(cCalc, cParent, fTarget1, bChnlSt, cConfig)
Dim fso, f

fName = "C:\rht.ini"

Set fso = CreateObject("Scripting.FileSystemObject")
Set f = fso.OpenTextFile(fName, 1)

fData = f.ReadAll    'Read the entire file into that variable

allData = Split(fData, vbCrLf)
sumTemp = 0
sumHum = 0
ntemp = 0
nhum = 0
For i = 0 To Ubound(allData)
    cdebug.LogStatus i & ": " & allData(i)

    'temperature line
    If Instr(allData(i), "temperature") <> 0 Then
        temp = GetVal(qextract(allData(i), 1, 2, "="))
        cdebug.LogStatus "temp = " & temp
        sumTemp = sumTemp + temp
        nTemp = nTemp + 1
    End If

    'humidity line
    If Instr(allData(i), "humidity") <> 0 Then
        hum = GetVal(qextract(allData(i), 1, 2, "="))
        cdebug.LogStatus "hum = " & hum
        sumHum = sumHum + hum
        nHum = nHum + 1
    End If

Next

cdebug.LogStatus "nTemp = " & nTemp
cdebug.LogStatus "nHum = " & nHum

If nTemp > 0 Then
    avgTemp = sumTemp / nTemp
End If
cdebug.LogStatus "avgTemp = " & avgTemp

If nHum > 0 Then
    avgHum = sumHum / nHum
End If
cdebug.LogStatus "avgHum = " & avgHum

cCOMPASS.cConfig.AmbTemp.RangeMain.RawOutput = avgTemp
cCOMPASS.cConfig.AmbRH.RangeMain.RawOutput = avgHum
End Function
```

Test Run

During the test, select the created device outputs as Ambient Temperature and Ambient Humidity. The device screen will show the average values of Dewk in rht.ini file.

