Program: Thermistor-Temperature-Sensor.CR1

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'CR1000 Series Datalogger
'Example datalogger program for Apogee Instruments model ST-100 and ST-200 temperature sensors
'date: July 17, 2013
'program author: Jacob Bingham

'Explanation of Constants and Variables Used in Datalogger Program
'BattV = datalogger battery voltage
'PanelT = datalogger panel temperature
'TempC = temperature in degrees Celsius

'Declare Public Variables
Public BattV, PanelT
Public TempC

'Define Data Tables
DataTable (Temperature,1,-1)
  DataInterval (0,1,Min,10)
  Minimum(1,BattV,IEEE4,0,False)
  Sample(1,PanelT,IEEE4)
  Average(1,TempC,IEEE4,False)
EndTable

'Main Program
BeginProg
  Scan(1,Sec,0,0)
    Battery(BattV)
    PanelTemp(PanelT,_60Hz)

    'Measure Surface Temperature
    Therm109(TempC,1,1,Vx1,0,_60Hz,1.0,0)

    'Call Output Tables
    CallTable Temperature
  NextScan
EndProg
```