

Program: ML2X.CR1

'CR1000

'program to read one ThetaProbe ML2X sensor

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'wiring(color, function, conection:

'Red Power supply positive. 12V

'Blue Power supply zero volts. G

'Yellow Output signal HI, load resistance 10KΩ minimum. diff 1 H

'Green Output signal LO. diff 1 L

'Braid Cable screen. NOT connected within probe.

'*****

'Declare public variables

Public sm1

'*****

'Define aliases

Alias sm1 = VWC

'*****

'Define units

Units VWC = Volts

'Define Data Tables

DataTable(Table1,True,-1)

DataInterval(0,5,Min,10)

Average(1,sm1,FP2,False)

EndTable

'Main Program

BeginProg

Scan(3,Sec,1,0)

'Switch on power for ML2x (SW 12V-1)

SW12(1)

'Wait for 4 seconds

Delay(0,4,Sec)

SubScan(100,mSec,9)

VoltDiff(sm1,1,mV5000,1,True,0,_50Hz,1.0,0)

VWC=-5.1853+0.0721*sm1-6.9877E-5*sm1^2+5.3643E-8*sm1^3

NextSubScan

'Switch off power for ML2x (SW 12V-1)

SW12(0)

CallTable(Table1)

NextScan

EndProg