Q. How to do floating point calculations with integers?

To gain a result with decimal place when dividing integers, please convert the integer to float first.

Α.

Please see the following Macro. D8=5 is the integer value gained from PLC.

```
macro_command main()
 2
 3
 4
     unsigned int D8
 5
     float float_D8, float_D8_2, temp
 6
     GetData(D8, "Mitsubishi FX3U/FX3G", D, 8, 1) // D8=5 in PLC
 7
8
 9
10
    float D8 = D8/10 // float D8 is equal to 0.0
     SetData(float_D8, "Local HMI", LW, 100, 1) //LW100 = 0.0
11
12
13
14
    temp=D8
    float_D8_2 = temp / 10 // float_D8+2 is equal to 0.5
SetData(float_D8_2, "Local HMI", LW, 102, 1) // LW102=0.5
15
16
17
18
19
     end macro_command
```

Line 10: Since D8 is an integer, D8/10 is performed as an integer operation and the result is 0. The result is then written to a float variable, float_D8, therefore float_D8 is 0.0.

Line 15: Since temp is a float, temp/10 is performed as a float operation and

the result is 0.5.

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