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Setting a special "CODE_" parameter of "MBUS_R" & "MBUS_R1" to get a clear "Degree Celsius" or "Degree Fahrenheit" input value of M-7000 temperature module. For example, "30.12" means 30.12 degree.

Ans:

Important: Special "CODE_" setting is supported since driver version of
I-8xx7: 3.15, I-7188EG: 2.13, I-7188XG: 2.11, W-8xx7: 3.31

The "CODE_" parameter of "MBUS_R" & "MBUS_R1" can be "standard setting" or "special setting".
For example setting "CODE_" of Modbus function code 1 to 4 (Dec. value) means "standard setting",
the value of 1 to 4 indicates using Modbus function code to read Modbus device. In this case,

Setting "CODE_" is 1 or 2, the input value is 1 or 0.

Setting "CODE_" is 3 or 4, the input value is normally -32768 to + 32767.

Also using "MBUS_R" & "MBUS_R1" to read the M-7000 devices with temperature input.
Please set "CODE_" to a special value defined as below.

Format: **TTRCC (Hex.)**

TT=10 (Convert to "Degree Celsius")

TT=20 (Convert to "Degree Fahrenheit")

TT=00 (standard setting, -32768 to +32767. RR should be set as 00 if TT=00)

RR: "type code" setting of the related temperature input module

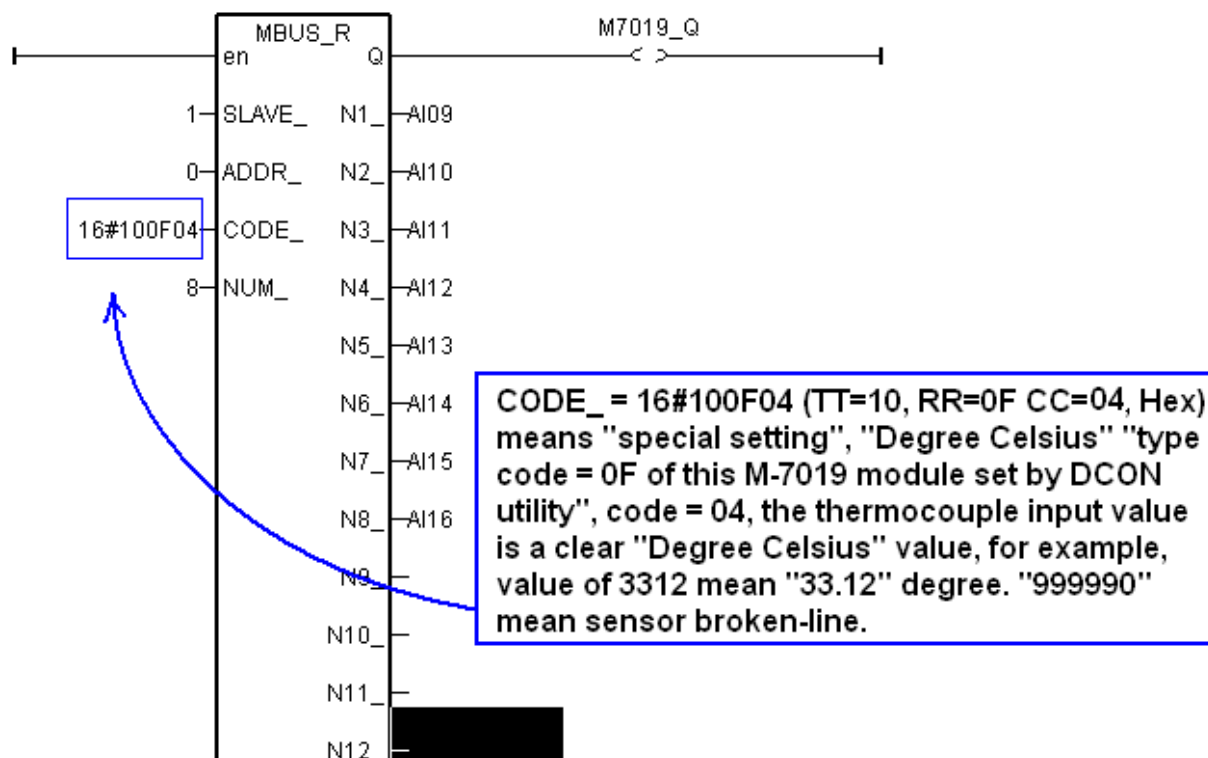
CC: Modbus function code 1 to 4 of the related Modbus device

The temperature input value unit is 0.01 degree. For ex, "30.12" means 30.12 degree.

For example, setting "CODE_" as below to read the temperature value of M-7019.

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A. 16#100F04 : (TT=10, RR=0F CC=04, Hex) the input value will be "Degree Celsius", unit is 0.01 degree, range= "0F : Thermocouple K Type, -270 ~1372 degree Celsius", code=04 (Dec.).

The results input value of "2356" = 23.56 Degree Celsius, "-489" = -4.89 Degree Celsius, "999990" = sensor broken-line.

B. 16#200F04 : (TT=20, RR=0F, CC=04, Hex) the input value will be "Degree Fahrenheit", unit is 0.01 degree, range= "0F : Thermocouple K Type, -270 ~ 1372 degree Celsius", code=04(Dec.).

The results input value of "4512" = 45.12 Degree Fahrenheit, "500" = 5.00 Degree Fahrenheit, "999990" = sensor broken line.

C. 16#04 : (TT=00, RR=00, CC=04) standard setting, the input value will be , -32768 to +32767, code=4

Click the link for more ISaGRAF FAQ:

<http://www.icpdas.com/en/faq/index.php?kind=280#751>