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 ex, "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 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 specical value defined as below.

Format: TTRRCC (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)
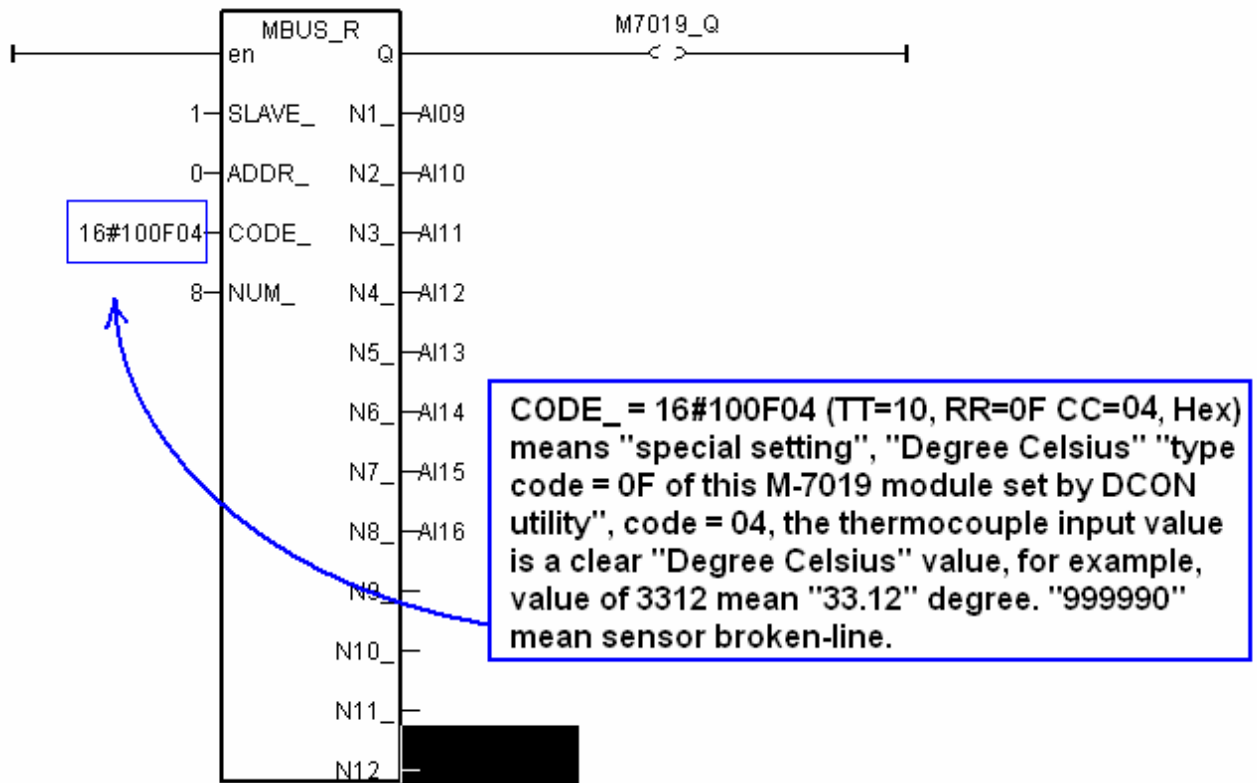   RR: "type code" setting of the related temperature input module
   CC: Modbus function code 1 to 4 of the related Modbus device
   The temperature input value unit is 0.01 degree. **For ex, "30.12" means 30.12 degree.**

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

(* *)

CODE_ = 16#100F04 (TT=10, RR=0F CC=04, Hex) means "special setting", "Degree Celsius" "type code = 0F of this M-7019 module set by DCON utility", code = 04, the thermocouple input value is a clear "Degree Celsius" value, for example, value of 3312 mean "33.12" degree. "999990" mean sensor broken-line.

 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.). That 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.). That 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