How to scale analog input and output of 4 to 20 mA (or 0 to 10 V) to my engineering format?

Click the link for more ISaGRAF FAQ.

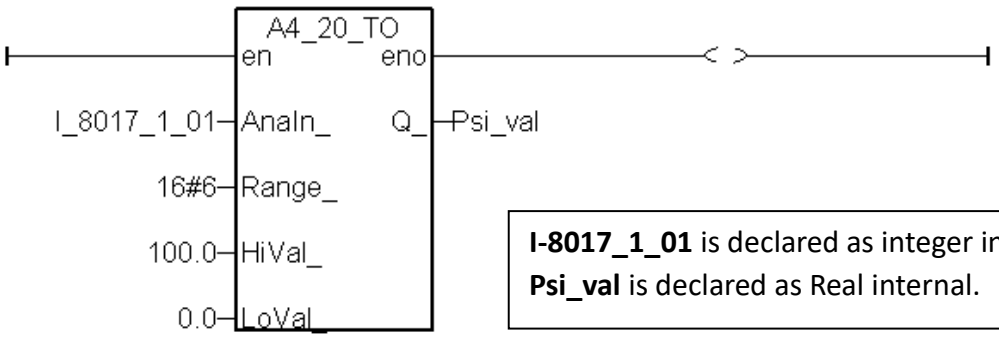
I-7188EG :	ver. 2.04 or later	I-7188XG :	ver. 2.03 or later
I-8xx7 :	ver. 3.06 or later	W-8x37 :	ver. 3.36 or later

The above driver all support the below scaling functions to convert (4 to 20mA) or (0 to 10V) to user's engineering format.

A4_20_to	scaling analog input (4 to 20 mA) to user's engineering format.
V0_10_to	scaling analog input (0 to 10 V) to user's engineering format.
to_A4_20	scaling user's engineering format to analog output (4 to 20 mA).
to_V0_10	scaling user's engineering format to analog output (0 to 10 V).

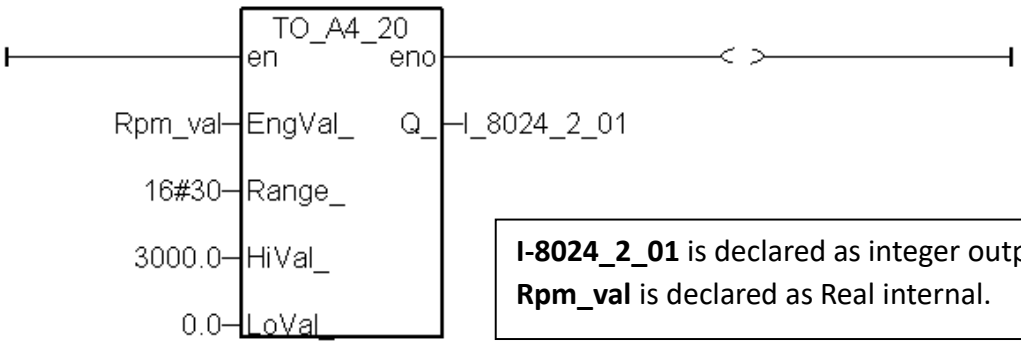
For example:

1. Scale I-8017H 's current input with range setting as **6: (-20 to +20 mA)** to user's engineering format of **(0 to 100 psi)**. 4 mA means 0 psi , 20 mA means 100 psi.



I-8017_1_01 is declared as integer input,
Psi_val is declared as Real internal.

2. Scale (0 to 3000 rpm) to I-8024's current output with range setting of 30: (0 to 20 mA). 0 rpm should output 4 mA , 3000 rpm outputs as 20 mA.



I-8024_2_01 is declared as integer output,
Rpm_val is declared as Real internal.

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