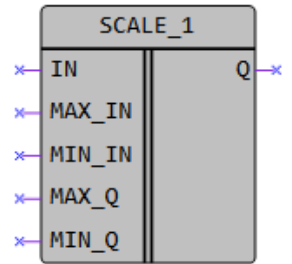


Input signal scaling

SCALE

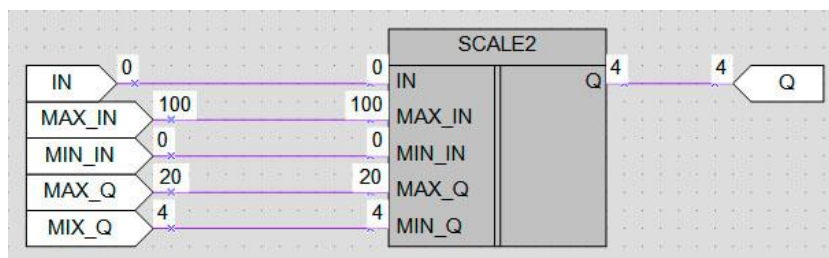


Input	Data type	Description	Range
IN	REAL	Input signal	-3.40282347E+38... 3.40282347E+38
MAX_IN	REAL	Upper input range value	-3.40282347E+38... 3.40282347E+38
MIN_IN	REAL	Lower input range value	-3.40282347E+38... 3.40282347E+38
MAX_Q	REAL	Upper output range value	-3.40282347E+38... 3.40282347E+38
MIN_Q	REAL	Lower output range value	-3.40282347E+38... 3.40282347E+38
Output	Data type	Description	Range
Q	REAL	Output signal	-3.40282347E+38... 3.40282347E+38

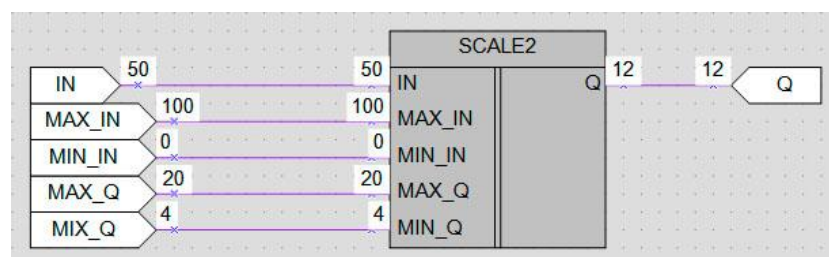
Function

The macro maps the input value (IN) of type REAL from one value range (MAX_IN, MIN_IN) to another one (MAX_Q, MIN_Q).

For example, if the first and the second range have been specified as 100...0 (MAX_IN, MIN_IN) and 20...4 (MAX_Q, MIN_Q) respectively, the real number IN is mapped from the first range to the second as follows:



or as follows:



Devices	PR200, SMI200
Version	1.1
Last change	04.2020