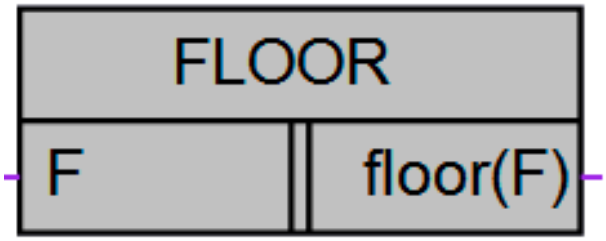
Rounding down

FLOOR



Input	Data type	Description	Area
F	REAL	Rounded number	-999999.9…999999.9*
Output	**Data type**	**Description**	**Area**
floor (F)	REAL	Result of the rounding	-1000000…999999*

*- Since the numbers outside the specified range have not been checked for correct conversion, it is recommended to enter values from the specified range at the macro input.

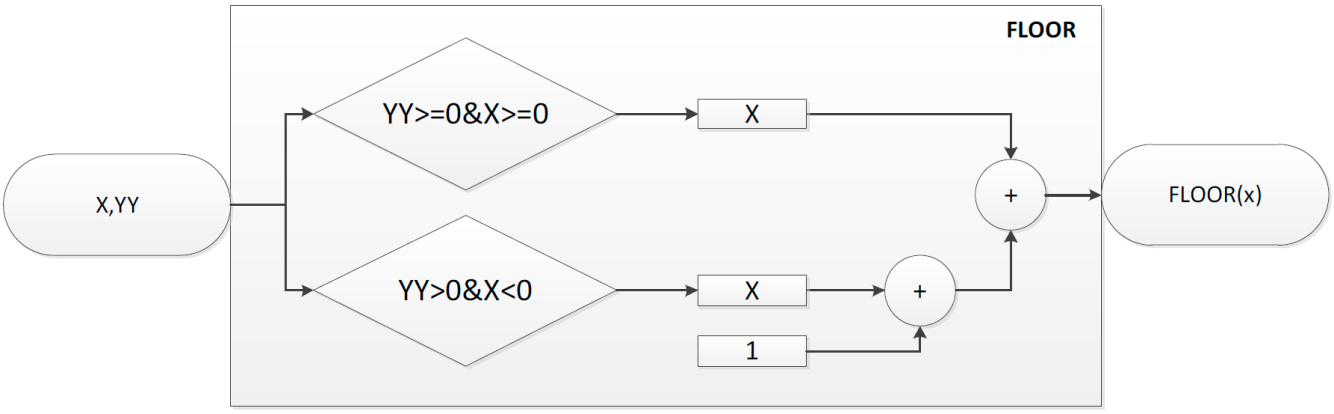
Function

The macro is an algorithm to round the Val value in REAL format and returns the highest integer value that is no more than Val. The table shows the variants of rounding numbers using this algorithm.

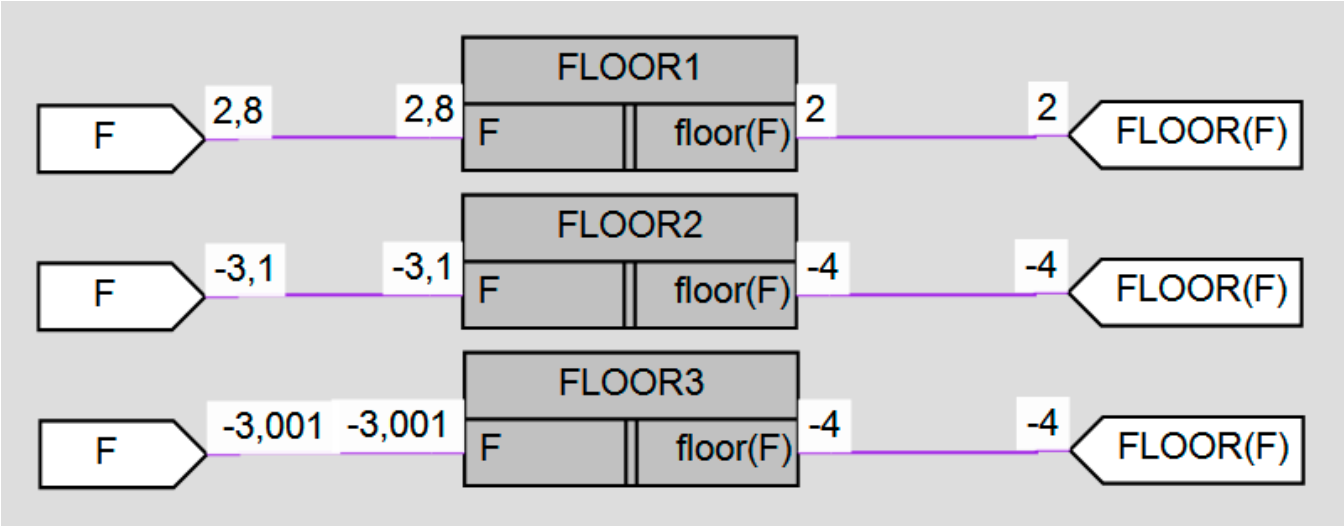
x	FLOOR(x)
2.0	2
2.4	2
2.9	2
-2.7	-3
-2.1	-3
-0.01	-1

Structure of the macro

The structure (function) diagram of the macro is shown below.



Sample project



The figure above shows an example of several macros with different values of variables for rounding. The output value is calculated taking the rounding into account.

Devices	PR200, SMI200
Version	1.0
Last modification	06.06.2020