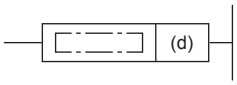
Inverting the sign of single-precision real number

ENEG(P)/DENEG(P)

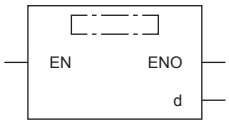
FX5S FX5UJ FX5U FX5UC

These instructions invert the sign of the single-precision real number specified by (d), and store the data of the device specified by (d).

The ENEG(P) instructions can also be used as DENEG(P).

Ladder diagram	Structured text
	ENO:=ENEG(EN,d); ENO:=ENEGP(EN,d);

FBD/LD



Setting data

■Descriptions, ranges, and data types

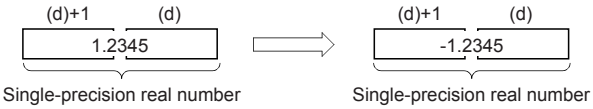
Operand	Description	Range	Data type	Data type (label)
(d)	Head device number storing single-precision real number whose sign is to be inverted	—	Single-precision real number	ANYREAL_32
EN	Execution condition	—	Bit	BOOL
ENO	Execution result	—	Bit	BOOL

■Applicable devices

Operand	Bit	Word			Double word		Indirect specification	Constant			Others
	X, Y, M, L, SM, F, B, SB, S	T, ST, C, D, W, SD, SW, R	U□\G□	Z	LC	LZ		K, H	E	$	
(d)	—	○	○	—	○	—	○	—	—	—	—

Processing details

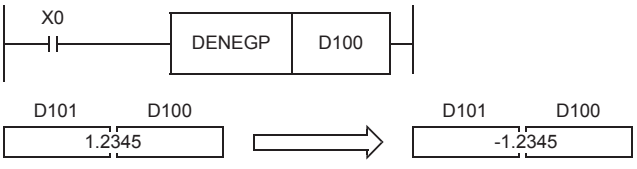
- These instructions invert the sign of the single-precision real number specified by (d), and store the data in the device specified by (d).



- Use these instructions for inverting the positive and negative sign.

Program example

In the program example shown below, the single-precision real number stored in D100 and D101 is inverted, and the negation result is stored to D100 and D101 when X0 turns ON.



Operation error

There is no operation error.