

## Converting binary floating point to decimal floating point

DEBCD(P)

**FX5S**   **FX5UJ**   **FX5U**   **FX5UC**

These instructions convert the binary floating point specified by (s) to decimal floating point, and store the converted data in the device specified by (d).

Ladder diagram	Structured text
	<pre>ENO:=DEBCD(EN,s,d); ENO:=DEBCDP(EN,s,d);</pre>



## Setting data

## ■ Descriptions, ranges, and data types

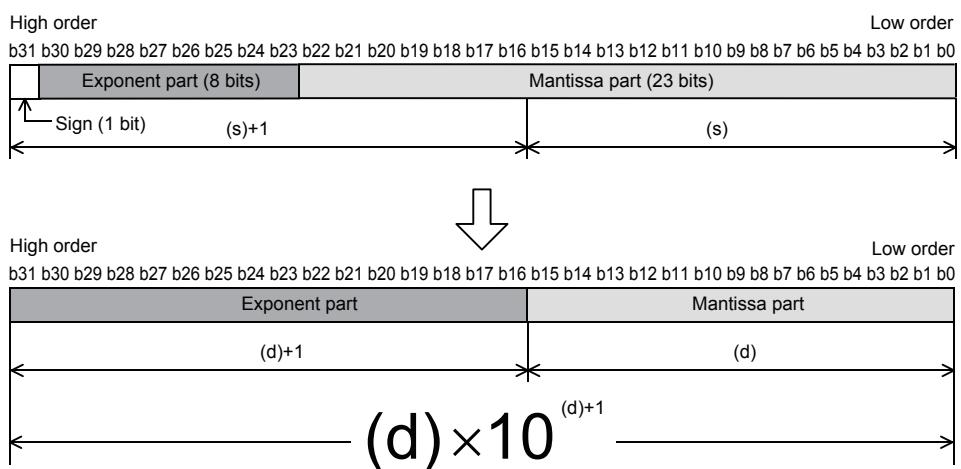
Operand	Description	Range	Data type	Data type (label)
(s)	Head device number storing binary floating point data	—	Single-precision real number	ANYREAL_32
(d)	Device number storing converted decimal floating point	—	Real number	ANY32
EN	Execution condition	—	Bit	BOOL
ENO	Execution result	—	Bit	BOOL

## ■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		K, H	E	\$	
(s)	—	○	○	—	○	—	○	—	—	—	—
(d)	—	○	○	—	○	—	○	—	—	—	—

## Processing details

- These instructions convert the binary floating point specified by (s) to decimal floating point, and store the converted data in the device specified by (d).



## Precautions

In floating point operations, all data is handled in binary floating point. Because binary floating point is difficult to understand (requiring a dedicated monitoring method), it is converted into scientific notation (decimal floating point) so that monitoring can be easily executed by peripheral equipment.

## Operation error

Error code (SD0/SD8067)	Description
3402H	The specified device value is denormalized number, NaN (not a number), or $\pm\infty$ .