Converting 32-bit unsigned binary data to single-precision real number

UDINT2FLT(P)

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

These instructions convert the 32-bit unsigned binary data in the device specified by (s) to single-precision real number, and store the converted data in the device specified by (d).

Ladder diagram	Structured text[1]
⎯⎯[⌐·⌐ (s) (d)]⎯⎯	ENO:=UDINT2FLT(EN,s,d); ENO:=UDINT2FLTP(EN,s,d);

FBD/LD
⌐·⌐ EN   ENO s   d

[1]   Supported by engineering tool version "1.035M" and later.

Setting data

■Descriptions, ranges, and data types

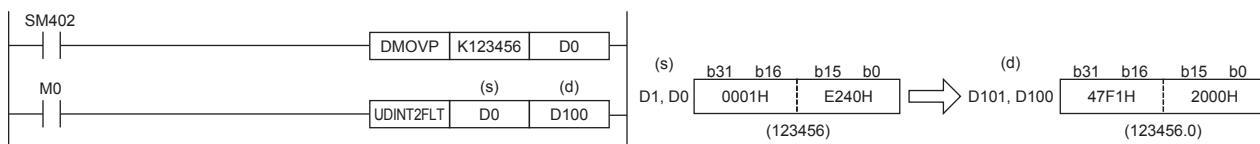| Operand	Description	Range	Data type	Data type (label)
(s)	Data before conversion	0 to 4294967295	32-bit unsigned binary	ANY32_U
(d)	Data after conversion	—	Single-precision real number	ANYREAL_32
EN	Execution condition	—	Bit	BOOL
ENO	Execution result	—	Bit	BOOL

■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	$	
(s)	○	○	○	○	○	○	○	○	—	—	—
(d)	—	○	○	—	○	—	○	—	—	—	—

Processing details

- These instructions convert the 32-bit unsigned binary data in the device specified by (s) to single-precision real number, and store the converted data in the device specified by (d).

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SM402
 ├─┤ ├─────────────────────[ DMOVP  K123456  D0 ]
                                    (s)      (d)
 M0
 ├─┤ ├─────────────────────[ UDINT2FLT  D0   D100 ]
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	b31 b16 b15 b0			b31 b16 b15 b0
(s) D1, D0	0001H	E240H	(d) D101, D100	47F1H	2000H
	(123456)			(123456.0)

Operation error

There is no operation error.