

Converting time data from seconds to hour/minute/second in 32 bits

DSTOH(P)

FX5S FX5UJ FX5U FX5UC

These instructions convert the 32-bit time value in seconds stored in the device numbers starting from (s) to the time value in the HHMMDD format, and store the converted data in the device numbers starting from (d).

Ladder diagram	Structured text
	ENO:=DSTOH(EN,s,d); ENO:=DSTOHP(EN,s,d);

FBD/LD

Setting data

■ Descriptions, ranges, and data types

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Operand	Description	Range	Data type	Data type (label)
(s)	Head device number where the clock data before conversion is stored	—	32-bit signed binary	ANY32
(d)	Head device number where the clock data after conversion is stored	—	16-bit signed binary	ANY16_ARRAY (Number of elements: 3)
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)	○	○	○	—	—	—	○	—	—	—	—

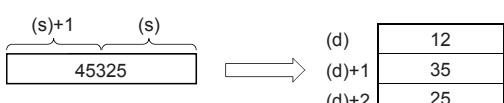
Processing details

- These instructions convert the time value in seconds stored in the device numbers starting from (s) to the time value in HHMMDD format, and store the converted data in the device numbers starting from (d).



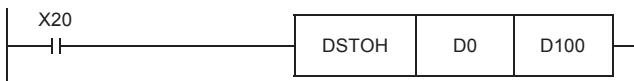
Ex.

When specifying 45325 seconds in (s)

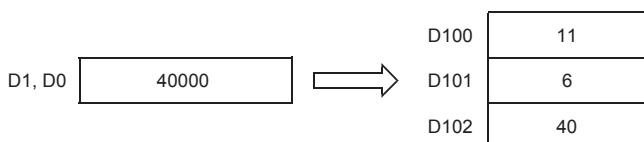


Program example

In the program shown below, the time data in units of "second" stored in D0 and D1 is converted into data in units of "hour, minute, and second", and stored to D100, D101, and D102 when X20 turns ON.



- Converting the data in second into the data in hour, minute and second using DSTOH instruction (when "40000 seconds" is specified by D1 and D0)



Operation error

Error code (SD0/SD8067)	Description
2820H	The specified device area exceeds the corresponding device range.
3405H	The value specified by (s) is outside the range.