

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

| 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 | LZ | | K, H | E | \$ | |
| (s) | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | — | — | — |
| (d) | ○ | ○ | ○ | — | — | — | ○ | — | — | — | — |

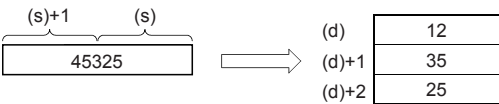
Processing details

- 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).



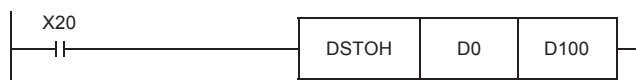
Ex.

When specifying 45325 seconds in (s)

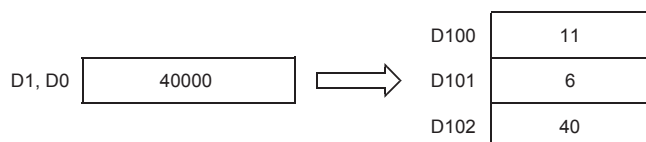


Program example

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. |