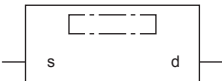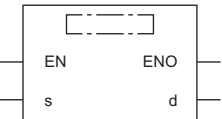# 20.43 Converting TIME to STRING

TIME_TO_STRING(_E)

| FX5S | FX5UJ | FX5U | FX5UC |

These functions convert TIME type data to STRING type data.

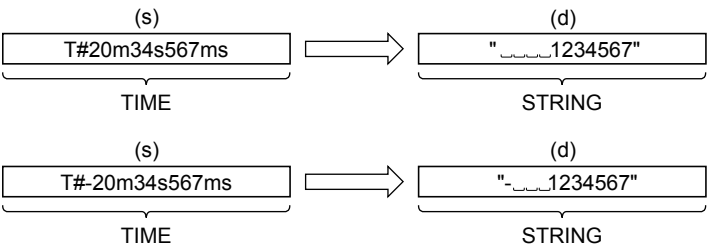| Ladder diagram, FBD/LD		Structured text

[Without EN/ENO]
 	
 s   d
	[With EN/ENO]
	
	 EN ENO
	 s d
		[Without EN/ENO]
		 d:=TIME_TO_STRING(s);
		 [With EN/ENO]
		 d:=TIME_TO_STRING_E(EN,ENO,s);

Setting data

■Descriptions, types, and data types

Argument	Description	Type	Data type
EN	Execution condition (TRUE: Execution, FALSE: Stop)	Input variable	BOOL
s(IN)	Input	Input variable	TIME
ENO	Output status (TRUE: Normal, FALSE: Abnormal)	Output variable	BOOL
d(TIME_TO_STRING(_E))	Output	Output variable	STRING(11)

Processing details

■Operation processing

- These functions convert the TIME type data input to (s) to STRING type data and output from (d).

(s)		(d)
T#20m34s567ms	⟹	" ␣␣␣1234567"
TIME		STRING

(s)		(d)
T#-20m34s567ms	⟹	"-␣␣1234567"
TIME		STRING

- A value input to (s) is the TIME type data value.
- 00H is stored at the end of the character string when SM701 (output character number selector signal) is off.
- The following shows the operation result to be stored in the output.
  - As the 1st character, "20H" (space) is stored if the binary data is positive, and "2DH" (-) is stored if the data is negative.
  - "20H" (space) is stored on the left side of the effective digits.

■Operation result

1. Function without EN/ENO

The operation processing is executed. The operation output value is output from (d).

2. Function with EN/ENO

The following table lists the execution conditions and operation results.

Execution condition	Operation result	
EN	ENO	(d)
TRUE (Executes operation)	TRUE	Operation output value
FALSE (Stops operation)	FALSE[*1]	Indefinite value

*1   When FALSE is output from ENO, data output from (d) is undefined. In that case, modify a program so that the data output from (d) is not used.

Operation error

There is no operation error.