
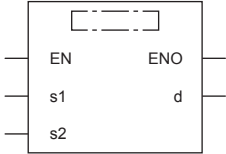


25.2 Selecting Maximum/Minimum Value

MAX(_E), MIN(_E)

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

- MAX(_E): These functions output the maximum value of an input value.
- MIN(_E): These functions output the minimum value of an input value.

Ladder diagram, FBD/LD ^{*1}		Structured text ^{*1}
<div> <div>[Without EN/ENO]</div>  </div> <div> <div>[With EN/ENO]</div>  </div>		<div> <div>[Without EN/ENO]</div> <pre>d:=MAX(s1,s2); d:=MIN(s1,s2);</pre> <div>[With EN/ENO]</div> <pre>d:=MAX_E(EN,ENO,s1,s2); d:=MIN_E(EN,ENO,s1,s2);</pre> </div>

*1 The input variable "s" can be changed in the range of 2 to 28.

Setting data

■Descriptions, types, and data types

Argument	Description	Type	Data type
EN	Execution condition (TRUE: Execution, FALSE: Stop)	Input variable	BOOL
s1(IN1) to s28(IN28)	Input	Input variable	ANY_ELEMENTARY
ENO	Output status (TRUE: Normal, FALSE: Abnormal)	Output variable	BOOL
d(MAX(_E) / MIN(_E))	Output	Output variable	ANY_ELEMENTARY

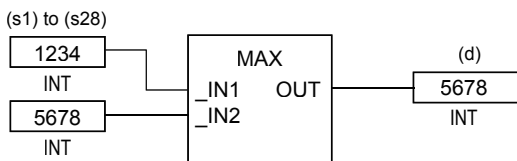
Processing details

■Operation processing

- MAX(_E)
These functions output the maximum value of the BOOL, INT, DINT, WORD, DWORD, REAL, STRING, or TIME type data input to (s1) to (s28) in the same data type as (s) from (d).

Ex.

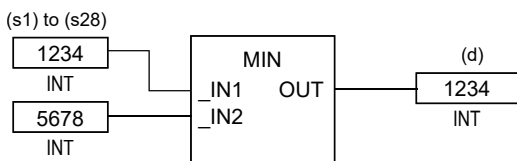
Data type is INT



- MIN(_E)
These functions output the minimum value of the BOOL, INT, DINT, WORD, DWORD, REAL, STRING, or TIME type data input to (s1) to (s28) in the same data type as (s) from (d).

Ex.

Data type is INT



- A data value of the BOOL, INT, DINT, WORD, DWORD, REAL, STRING, or TIME type can be input to (s1) to (s28).
- The number of pins for (s) can be changed in the range of 2 to 28.

■Operation result

1. Function without EN/ENO

The following table lists the operation results.

Operation result	(d)
No operation error occurred	Operation output value
An operation error occurred	Indefinite value

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 error did not occur)	Operation output value
	FALSE (Operation error occurred) ^{*1}	Indefinite 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

- (s1) to (s28) are STRING

Error code (SD0/SD8067)	Description
2820H	In the corresponding device range of the device specified by (s1) to (s28) and later, "00H" does not exist.
3405H	The character string specified by (s1) to (s28) has more than 16383 characters.
3406H	The whole specified character string cannot be stored in the devices from the device specified by (d) to the last device in the corresponding device range.