

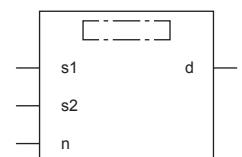
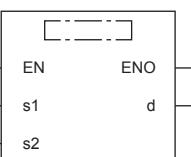
27.5 Inserting Character String

27

INSERT(_E)

FX5S FX5UJ FX5U FX5UC

These functions insert a character string into another character string and output the result.

| Ladder diagram, FBD/LD | Structured text |
|---|--|
| [Without EN/ENO]  [With EN/ENO]  | [Without EN/ENO] d:=INSERT(s1,s2,n); [With EN/ENO] d:=INSERT_E(EN,ENO,s1,s2,n); |

Setting data

■Descriptions, types, and data types

| Argument | Description | Type | Data type |
|------------------|---|-----------------|-------------|
| EN | Execution condition (TRUE: Execution, FALSE: Stop) | Input variable | BOOL |
| s1(IN1), s2(IN2) | Input | Input variable | STRING(255) |
| n(P) | Specification of head character position of a character string to be inserted | Input variable | INT |
| ENO | Output status (TRUE: Normal, FALSE: Abnormal) | Output variable | BOOL |
| d(INSERT(_E)) | Output | Output variable | STRING(255) |

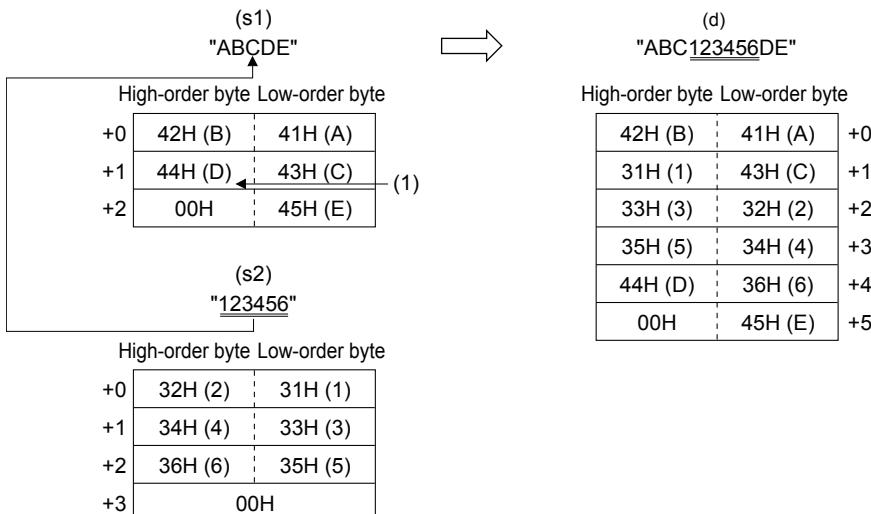
Processing details

■Operation processing

- These functions insert the character string input to (s2) at the (n)th character from the start of the character string input to (s1) (head position of the insertion) and output from (d).
- After the character string specified by (s2) is inserted to the one specified by (s1), 00H indicating an end of the character string specified by (s2) is ignored.
- When the inserted character string exceeds 255 bytes, these functions output a character string within 255 bytes.

Ex.

When the value input to (n) is 4



(1): Head character position of a character string to be inserted n: 4th character

- A value input to (s1) and (s2) is the STRING type data value and within the range from 0 to 255 byte(s).
- A value input to (n) is the INT type data value and within the range from 1 to 255. (However, the value must be within the number of characters of the character string to be input to (s1).)

■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 | (d) |
|---------------------------|--|--|
| EN | ENO | (d) |
| TRUE (Executes operation) | TRUE (Operation error did not occur) FALSE (Operation error occurred) ^{*1} | Operation output value 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

| 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. |
| 3406H | The whole concatenated character string cannot be stored in the devices from the device specified by (d) to the last device in the corresponding device range. |