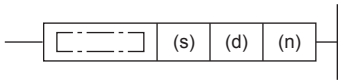
Deleting data from the data table

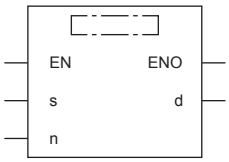
FDEL(P)

FX5S FX5UJ FX5U FX5UC

These instructions remove the (n)th data in the data table specified by (d) and store the data in the device specified by (s). After these instructions are executed, the data after the (n)+1th data in the data table is moved up by one data point.

Ladder diagram	Structured text
	ENO:=FDEL(EN,s,n,d); ENO:=FDELP(EN,s,n,d);

FBD/LD



Setting data

■Descriptions, ranges, and data types

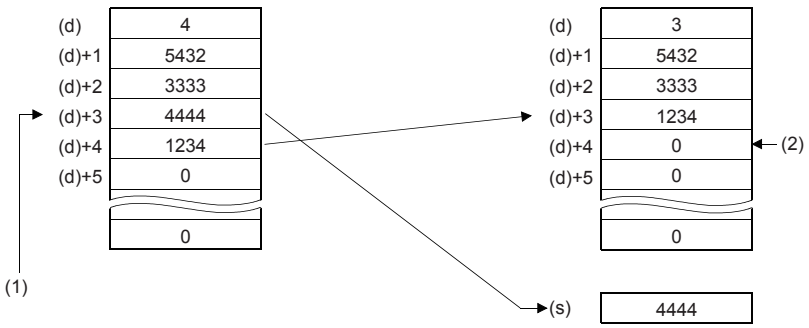
Operand	Description	Range	Data type	Data type (label)
(s)	Head device number for storing the data to be deleted	—	16-bit signed binary	ANY16
(d)	Start number of the table	—	Word	ANY16
(n)	Position of the data to be deleted in the table	1 to 32767	16-bit unsigned binary	ANY16
EN	Execution condition	—	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)	—	○	—	—	—	—	○	—	—	—	—
(n)	○	○	○	○	—	—	○	○	—	—	—

Processing details

- These instructions remove the (n)th data in the data table specified by (d) and store the data in the device specified by (s). After these instructions are executed, the data after the (n)+1th data in the data table is moved up by one data point.

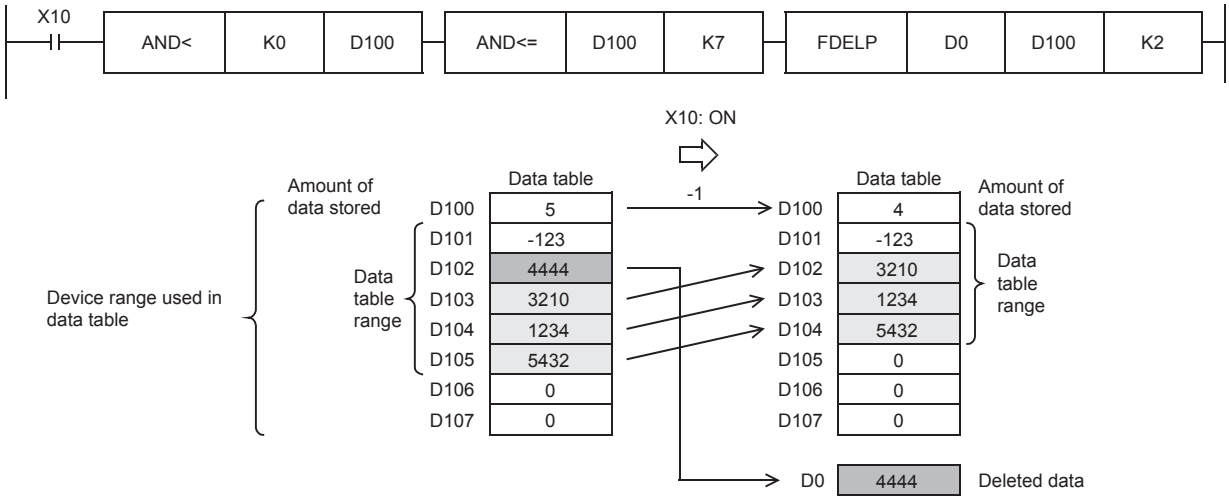


Precautions

- The device range used in a data table should be controlled by the user.
- The data table has (d) number of stored data starting from ((d)+1).

Program example

In the program shown below, the 2nd data value entry is deleted from the data table stored in D100 to D105 when X10 is set to ON, and the deleted data is stored in D0.
However, when the amount of data stored is "0", the FDELP instruction is not executed.
(The device range used in the data table is D100 to D107).



Operation error

Error code (SD0/SD8067)	Description
2820H	When the FDEL(P) instructions are executed, the data table range exceeds the corresponding device range.
3405H	When the FDEL(P) instructions are executed, the value (n) exceeds the corresponding device range of the table (d).
	When 0 is set in (d), and the FDEL(P) instructions are executed.
	When the FDEL(P) instructions are executed, the table position (n) where the data to be deleted is stored exceeds the number of stored data points.
	The value set in (n) is other than the following. 2≤(n)≤32767