

## Decrementing 16-bit binary data

### DEC(P)(\_U)

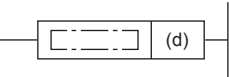
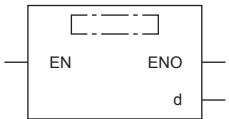
FX5S

FX5UJ

FX5U

FX5UC

These instructions subtract 1 from the device (16-bit binary data) specified by (d).

Ladder diagram	Structured text	
	ENO:=DEC(EN,d); ENO:=DECP(EN,d);	ENO:=DEC_U(EN,d); ENO:=DECP_U(EN,d);
FBD/LD		
		

### Setting data

#### ■ Descriptions, ranges, and data types

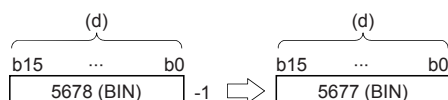
Operand	Description	Range	Data type	Data type (label)
(d)	DEC(P)	-32768 to +32767	16-bit signed binary	ANY16_S
	DEC(P)_U	0 to 65535	16-bit unsigned binary	ANY16_U
EN	Execution condition	—	Bit	BOOL
ENO	Execution result	—	Bit	BOOL

#### ■ 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	\$	
(d)	○	○	○	○	—	—	○	—	—	—	—

### Processing details

- These instructions subtract 1 from the device (16-bit binary data) specified by (d).



- If DEC(P) instruction is executed when contents of device specified by (d) is -32768, 32767 is stored in the device specified by (d). (If signed is specified)
- If DEC(P)\_U instruction is executed when contents of device specified by (d) is 0, 65535 is stored in the device specified by (d). (If unsigned is specified)
- Flags (zero, carry and borrow) are not activated at this time.

### Precautions

Note that data is decremented in every operation cycle in a continuous operation type (DEC) instruction.

### Operation error

There is no operation error.