

Decrementing 32-bit binary data

DDEC(P)(_U)

FX5S

FX5UJ

FX5U

FX5UC

These instructions subtract 1 from the device (32-bit binary data) specified by (d).

| Ladder diagram | Structured text | |
|----------------|---------------------------------------|---|
| | ENO:=DDEC(EN,d); ENO:=DDECP(EN,d); | ENO:=DDEC_U(EN,d); ENO:=DDECP_U(EN,d); |
| FBD/LD | | |
| | | |

Setting data

■ Descriptions, ranges, and data types

| Operand | Description | Range | Data type | Data type (label) |
|---------|---------------------|----------------------------|------------------------|-------------------|
| (d) | DDEC(P) | -2147483648 to +2147483647 | 32-bit signed binary | ANY32_S |
| | DDEC(P)_U | 0 to 4294967295 | 32-bit unsigned binary | ANY32_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 contents of device (32-bit binary data) specified by (d).



- If DDEC(P) instruction is executed when contents of device specified by (d) is 0, -1 is stored in the device specified by (d). (If signed is specified)
- If DDEC(P)_U instruction is executed when contents of device specified by (d) is 0, 4294967295 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 (DDEC) instruction.

Operation error

There is no operation error.