

# Converting 16-bit signed binary data to 32-bit unsigned binary data

## INT2UDINT(P)

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

These instructions convert the 16-bit signed binary data in the device specified by (s) to 32-bit unsigned binary data, and store the converted data in the device specified by (d).

**Ladder diagram**

**Structured text<sup>\*1</sup>**

ENO:=INT2UDINT(EN,s,d);  
ENO:=INT2UDINTP(EN,s,d);

**FBD/LD**

\*1 Supported by engineering tool version "1.035M" and later.

### Setting data

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

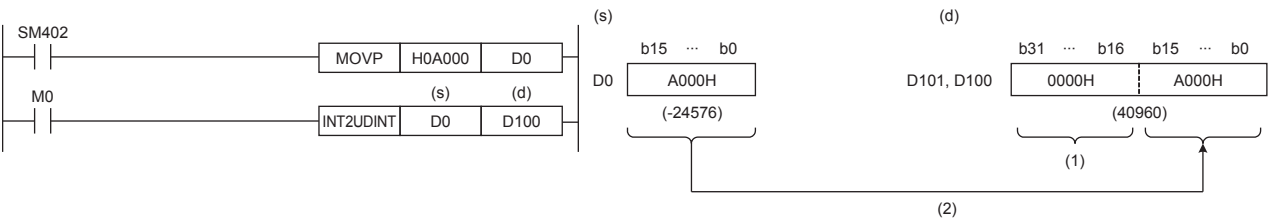
Operand	Description	Range	Data type	Data type (label)
(s)	Data before conversion	-32768 to +32767	16-bit signed binary	ANY16_S
(d)	Data after conversion	—	32-bit unsigned binary	ANY32_U
EN	Execution condition	—	Bit	BOOL
ENO	Execution result	—	Bit	BOOL

#### ■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	\$	
(s)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	—	—	<input type="radio"/>	<input type="radio"/>	—	—	—
(d)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	—	—	—	—

### Processing details

- These instructions convert the 16-bit signed binary data in the device specified by (s) to 32-bit unsigned binary data, and store the converted data in the device specified by (d).



- (1): The value 0 is stored.  
(2): Data before conversion is stored in the lower 16 bits.

### Operation error

There is no operation error.