

Converting 32-bit binary data to Gray code

DGRY(P)(_U)

FX5S FX5UJ FX5U FX5UC

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

Ladder diagram	Structured text
	ENO:=DGRY(EN,s,d); ENO:=DGRYP(EN,s,d); ENO:=DGRYP_U(EN,s,d);
FBD/LD	

Setting data

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■Descriptions, ranges, and data types

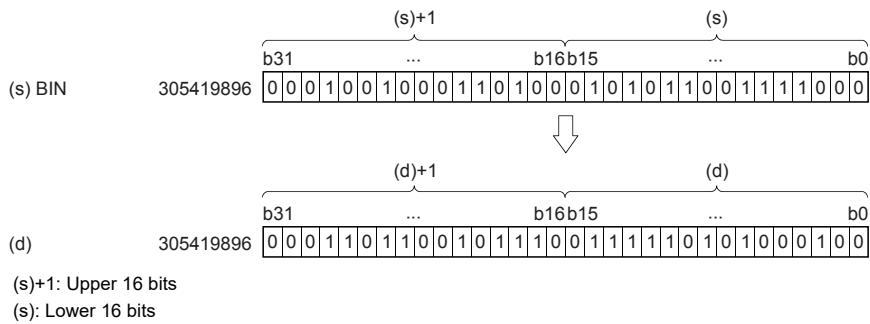
Operand		Description		Range		Data type		Data type (label)	
(s)	DGRY(P)	Binary data or the head device where the binary data is stored		0 to 2147483647		32-bit signed binary		ANY32_S	
	DGRY(P)_U			0 to 4294967295		32-bit unsigned binary		ANY32_U	
(d)	DGRY(P)	Head device for storing the gray code data after conversion		—		32-bit signed binary		ANY32_S	
	DGRY(P)_U			—		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		K, H	E	\$	
(s)	○	○	○	○	○	○	○	○	—	—	—
(d)	○	○	○	○	○	○	○	—	—	—	—

Processing details

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



Precautions

The data conversion speed depends on the scan time of the CPU module.

Operation error

There is no operation error.