

Inverter parameter read

IVRD

FX5S FX5UJ FX5U FX5UC

This instruction reads a parameter of an inverter to the CPU module.

Ladder diagram	Structured text
	ENO:=IVRD(EN,s1,s2,n,d1,d2);
FBD/LD	

Setting data

■Descriptions, ranges, and data types

Operand	Description	Range	Data type	Data type (label)
(s1)	Inverter station number	K0 to 31	16-bit signed binary	ANY16
(s2)	Inverter parameter number	*1	16-bit signed binary	ANY16
(d1)	Device number storing the read value	—	16-bit signed binary	ANY16
(n)	Communication channel	■FX5S/FX5UJ CPU module K2 to 4 ■FX5U CPU module K1 to 4 ■FX5UC CPU module K1, K3 to 4	16-bit unsigned binary	ANY16_U
(d2)	Head bit device to which the execution status of the instruction is output	—	Bit	ANYBIT_ARRAY (Number of elements: 3)
EN	Execution condition	—	Bit	BOOL
ENO	Execution result	—	Bit	BOOL

*1 Refer to MELSEC iQ-F FX5 User's Manual (Communication) or respective inverter manual.

■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	\$	
(s1)	—	○*1	○	○	—	—	○	○	—	—	—
(s2)	—	○*1	○	○	—	—	○	○	—	—	—
(d1)	○	○	○	—	—	—	○	—	—	—	—
(n)	—	—	—	—	—	—	—	○	—	—	—
(d2)	○	○*1	—	—	—	—	—	—	—	—	—

*1 T, ST, and C cannot be used.

Processing details

The value of the parameter (s2) is read from an inverter connected to the communication channel (n) whose station number is (s1), and output to (d1). For details, refer to MELSEC iQ-F FX5 User's Manual (Communication). (For the parameter numbers, refer to the each inverter manual.)

Precautions

Three devices are occupied from the device specified in (d2). Make sure that these devices are not used in other controls.

Operation error

Error code (SD0/SD8067)	Description
1810H	Channel number specified by (d) is used by another instruction.
2820H	The specified device exceeds the range of the corresponding device.
3405H	<p>The value specified by (s1) is other than any of K0 to 31.</p> <p>The value specified by (s2) is outside the allowable range. (Less than K0, K3000 to 9999, or K13000 to 32767)</p> <p>When the value specified for (n) is other than the following channel numbers.</p> <ul style="list-style-type: none">• FX5S/FX5UJ CPU moduleK2 to 4• FX5U/FX5UC CPU moduleK1 to 4
3600H	Channel number specified by (d) is not set by parameters.

For communication errors, refer to MELSEC iQ-F FX5 User's Manual (Communication).