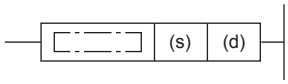
7.7 Data Transfer Instructions

Transferring 16-bit data

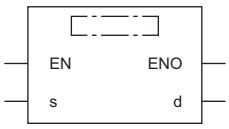
MOV(P)

FX5S FX5UJ FX5U FX5UC

These instructions transfer the 16-bit binary data in the device specified by (s) to the device specified by (d).

Ladder diagram	Structured text
	ENO:=MOV(EN,s,d); ENO:=MOVP(EN,s,d);

FBD/LD



Setting data

■Descriptions, ranges, and data types

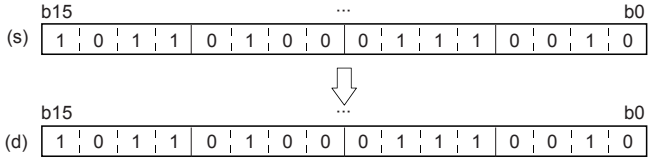
Operand	Description	Range	Data type	Data type (label)
(s)	Transfer source data or device number for storing data	-32768 to +32767	16-bit signed binary	ANY16
(d)	Transfer destination device number	—	16-bit signed binary	ANY16
EN	Execution condition	—	Bit	BOOL
ENO	Execution result	—	Bit	BOOL

■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)	○	○	○	○	—	—	○	○	—	—	—
(d)	○	○	○	○	—	—	○	—	—	—	—

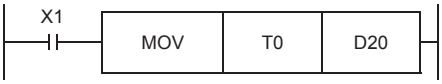
Processing details

- These instructions transfer the 16-bit binary data in the device specified by (s) to the device specified by (d).



Program example

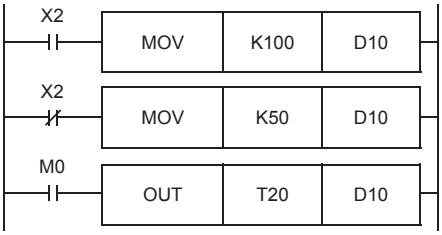
• When reading the current value of a timer and counter



(Current value of T0) → (D20)
The operation is the same as a counter.

• When indirectly specifying the set value of a timer or counter

As the set value of the timer T20, two values can be specified by turning ON or OFF the switch X2.
For specifying more than two set values, more than one switch is required.



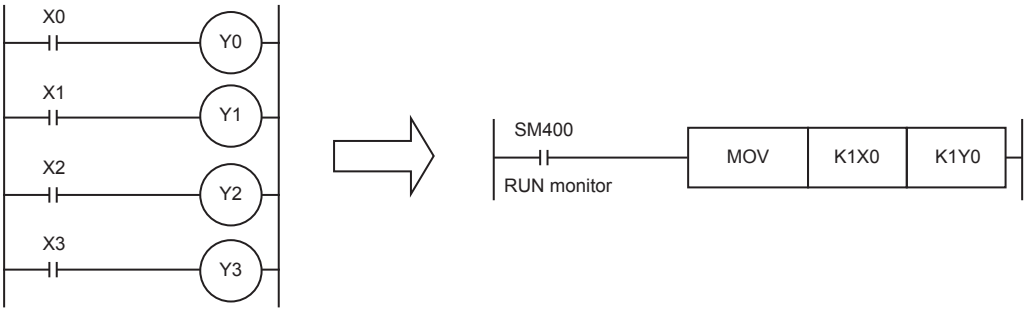
(K100)→(D10)

(K50)→(D10)

When X2 is ON, D10 = K100 (10-second timer).
When X2 is OFF, D10 = K50 (5-second timer).

• When transferring a bit device

The following sequence program can be programmed by using MOV instruction.



Operation error

There is no operation error.