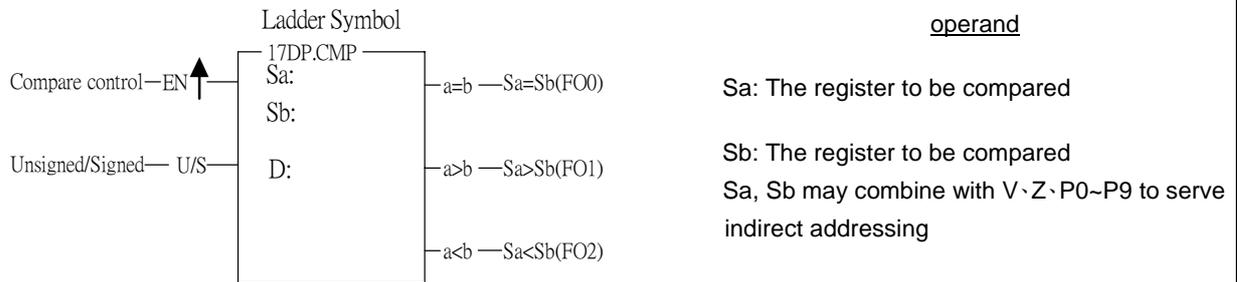


Basic Function Instruction

FUN 17 CMP	COMPARE (Compares the data of Sa and Sb and outputs the results to function Outputs)	FUN 17 CMP
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Range	WX	WY	WM	WS	TMR	CTR	HR	IR	OR	HSCR	RTCR	SR	ROR	DR	K	XR
Operand	WX0	WY0	WM0	WS0	T0	C0	R0	R3804	R3904	R4096	R4128	R4136	R5000	D0	16/32 bit	V·Z
	WX240	WY240	WM1896	WS984	T255	C255	R3839	R3903	R3967	R4127	R4135	R4167	R8071	D4095	+/-number	P0~P9
Sa	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
Sb	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○

- When the compare control input "EN" =1 or "EN ↑" (P instruction) from 0 to 1 and unsigned/signed input "U/S"=0, it performs the signed comparison between the data of Sa and Sb. If the data of Sa is equal to Sb, then set FO0 to 1. If the data of Sa>Sb, then set FO1 to 1. If the data of Sa<Sb, then set FO2 to 1.
- When the compare control input "EN" =1 or "EN ↑" (P instruction) from 0 to 1 and unsigned/signed input "U/S"=1, it performs the unsigned comparison between the data of Sa and Sb. If the data of Sa is equal to Sb, then set FO0 to 1. If the data of Sa>Sb, then set FO1 to 1. If the data of Sa<Sb, then set FO2 to 1.
- M1919=0, when this command is not performed, FO0, FO1, FO2 will remain in the status at last execution.
- M1919=1, when this command is not performed, FO0, FO1, FO2 are all cleared to 0.
- Control M1919 properly to obtain memory-holding function for functional output.

Example .16-bit signed comparison



Sa	R0	- 5 (FFFBH)
Sb	R1	32767 (7FFFH)

↓ X0 = 1
 Y0=0, Y1=0, Y2=1

FUN 17 CMP	COMPARE (Compares the data of Sa and Sb and outputs the results to function Outputs)	FUN 17 CMP
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Example .16-bit unsigned comparison



Sa	R0	65531 (FFFBH)
Sb	R1	32767 (7FFFH)

↓ X0 = 1
 Y0=0, Y1=1, Y2=0