

Execution EN— = Sb—

Sa: Operand A or the starting address of Sa

Sb: Operand B or the starting address of Sb

Sa  $\cdot$  Sb may combine with  $\lor \cdot Z \cdot P0 \sim P9$  for indirect addressing application

\* This instruction can be supported in PLC OS firmware V4.60 or later

	Range	WX	WY	WM	WS	TMR	CTR	HR	SR	ROR	DR	K	XR
9		WX0	WY0	WM0	WS0	T0	C0	R0	R3804	R5000	D0	16/ 32 bit	V · Z
eiai												+/- number	P0~P9
ā		WX240	WY240	WM1896	WS984	T255	C255	R3839	R4167	R8071	D3999	17 Hamber	1017
	Sa	0	$\circ$	0	0	0	0			0	$\circ$	0	0
	Sb	0	Ö	0	0	0	0	0	0	0	0	0	0

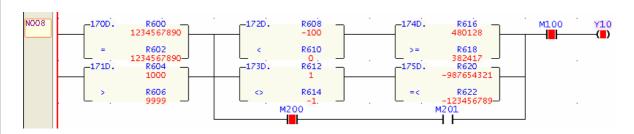
When execution input "EN" =1, this instruction will be executed in signed number to compare Sa with Sb. If Sa=Sb, the output is 1; otherwise the output is 0.

### Example 1:



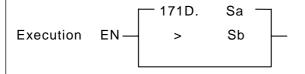
Description: When R0=R2 \ R4=R6 and M0=1, the output status of Y0 is 1; otherwise it is 0 R0=R2 \ R8=R10 and M1=1, the output status of Y1 is 1; otherwise it is 0

## Example 2:



#### Mathematic instruction





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-	ange Operand	WX0	WY0	WM0	WS0	T0	C0	R0	R3804	R5000	D0	16/ 32 bit	V • 7
												+/- number	P0~P9
		WX240	WY240	WM1896	WS984	T255	C255	R3839	R4167	R8071	D3999	999	10-17
	Sa	0	0	$\circ$	0	0	0	$\circ$		$\circ$	$\circ$	0	$\circ$
	Sb	0	0	0	0	0	0		0	0	0	0	$\circ$

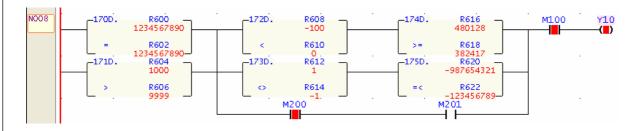
When execution input "EN" =1, this instruction will be executed in signed number to compare Sa with Sb. If Sa>Sb, the output is 1; otherwise the output is 0.

# Example 1:

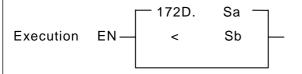


Description: When M10=1  $\cdot$  R20 > R22 or M11=1, the output status of Y2 is 1; otherwise it is

## Example 2:







Sa: Operand A or the starting address of Sa

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Sa  $\cdot$  Sb may combine with  $\vee \cdot Z \cdot P0 \sim P9$  for indirect addressing application

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	\ <sub>Z</sub>	WX	WY	WM	WS	TMR	CTR	HR	SR	ROR	DR	K	XR
	Range	WX0	WY0	WM0	WS0	T0	C0	R0	R3804	R5000	D0	16/ 32 bit	V · Z
												+/- number	P0~P9
		WX240	WY240	WM1896	WS984	T255	C255	R3839	R4167	R8071	D3999	17 Hamber	1017
	Sa	0	$\circ$	0	0	0	0	0		$\circ$	$\circ$	0	0
Ī	Sb	0	Ö	0	0	0	0	0	0	0	0	0	0

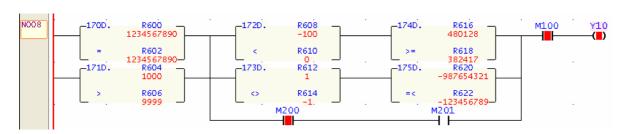
When execution input "EN" =1, this instruction will be executed in signed number to compare Sa with Sb. If Sa<Sb, the output is 1; otherwise the output is 0.

# Example 1:



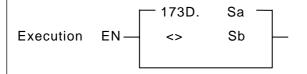
Description: When M10=1  $\cdot$  R20 < R22 or M11=1, the output status of Y2 is 1; otherwise it is 0.

## Example 2:



#### Mathematic instruction





Sa: Operand A or the starting address of Sa

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Sa  $\cdot$  Sb may combine with  $\lor \cdot Z \cdot P0 \sim P9$  for indirect addressing application

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	Range	WX	WY	WM	WS	TMR	CTR	HR	SR	ROR	DR	K	XR
		WX0	WY0	WM0	WS0	T0	C0	R0	R3804	R5000	D0	16/ 32 bit	V • 7
												+/- number	V \ Z P0~P9
		WX240	WY240	WM1896	WS984	T255	C255	R3839	R4167	R8071	D3999	+/- Humber	10-17
	Sa	0	$\circ$	$\circ$	0	0	0	$\circ$	0	$\circ$	$\circ$	0	$\circ$
	Sb	0	Ö	0	0	0	0	0	0	0	0	0	0

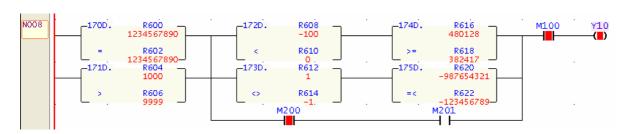
• When execution input "EN" =1, this instruction will be executed in signed number to compare Sa with Sb. If  $Sa \neq Sb$ , the output is 1; otherwise the output is 0.

# Example 1:



Description: When M10=1  $\cdot$  R20  $\neq$  R22 or M11=1, the output status of Y2 is 1; otherwise it is 0

# Example 2:

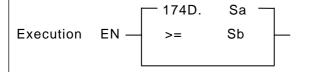


FUN174 D GREATER THAN OR EQUAL TO COMPARE

>= (Compare whether Sa is greater than or equal to Sb)

FUN174 D

>=



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	\	WX	WY	WM	WS	TMR	CTR	HR	SR	ROR	DR	K	XR
-	Cange Operand	WX0	WY0	WM0	WS0	T0	C0	R0	R3804	R5000	D0	16/ 32 bit	V • 7
												+/- number	P0~P9
		WX240	WY240	WM1896	WS984	T255	C255	R3839	R4167	R8071	D3999	+/- Humber	10-17
	Sa	$\circ$	$\circ$	0	0	0					0	0	0
	Sb	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\cap$	$\bigcirc$	$\circ$	$\cap$	$\cap$	$\cap$	$\bigcirc$	$\circ$	$\cap$

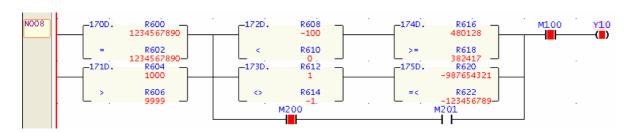
When execution input "EN" =1, this instruction will be executed in signed number to compare Sa with Sb. If  $Sa \ge Sb$ , the output is 1; otherwise the output is 0.

# Example 1:

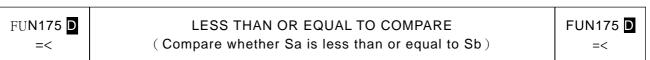


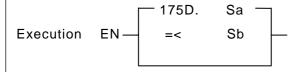
Description: When M10=1  $\cdot$  R20  $\geq$  R22 or M11=1, the output status of Y2 is 1; otherwise it is 0

## Example 2:



#### Mathematic instruction





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	\	WX	WY	WM	WS	TMR	CTR	HR	SR	ROR	DR	K	XR
-	ange Operand	WX0	WY0	WM0	WS0	T0	C0	R0	R3804	R5000	D0	16/ 32 bit	V • 7
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		WX240	WY240	WM1896	WS984	T255	C255	R3839	R4167	R8071	D3999	999	10-17
	Sa	0	0	$\circ$	0	0	0	$\circ$		$\circ$	$\circ$	0	$\circ$
	Sb	0	0	0	0	0	0		0	0	0	0	$\circ$

When execution input "EN" =1, this instruction will be executed in signed number to compare Sa with Sb. If  $Sa \le Sb$ , the output is 1; otherwise the output is 0.

# Example 1:



Description: When M10=1  $\cdot$  R20  $\leq$  R22 or M11=1, the output status of Y2 is 1; otherwise it is 0.

### Example 2:

