## Allen Bradley Ethernet IP(MicroLogix, SLC500)

(Support Allen Bradley MicroLogix, SLC500 series PLC)

#### **HMI Factory Setting:**

Controller IP Address: 192.168.0.1

Controller COM Port: 44818 (Note 2)

Controller Station Number: 1 (Note 3)

Control Area / Status Area: None / None

#### Connection

Standard Jumper Cable / Network Cable without jumper (Auto-detected by HMI)

#### **Definition of PLC Read/Write Address**

#### a. Registers

	Format	Read/Write Range	Data Length	Note
Туре	Word No. (n) Slot No. (s) File No. (f)			
Output file	<b>O</b> :n	O:0 - O:255 (s = 0, f = 0)	Word	5 M.
	<b>O</b> :s.n	<b>O</b> :0.0 - <b>O</b> :255.255 (f = 0)		
Input filo	l:n	I:0 - I:255 (s = 0, f = 1)	Word	511
	l:s.n	I:0.0 - I:255.255 (f = 1)		
Status file	<b>S2</b> :n	<b>S2</b> :0 - <b>S2</b> :255 (f = 2)	Word	511
Bit file	<b>B</b> :n	B:0 - B:255 (f = 3)	Word	74. M
	<b>B</b> f:n	<b>B</b> 3:0 - <b>B</b> 3:255, <b>B</b> 9:0 - <b>B</b> 255:255		
Timor flag	T:n	T:0 - T:255 (f = 4)	Word	24.37
limer nag	Tf:n	T4:0 - T4:255, T9:0 - T255:255		
	T:n.PRE	<b>T</b> :0.PRE – <b>T</b> :255.PRE (f = 4)	Word	21.35
Timer Preset Value	Tf:n.PRE	T4:0.PRE – T4:255.PRE, T9:0.PRE – T255:255.PRE		
PLONI PLONI PLO	T:n.ACC	T:0.ACC – T:255.ACC, (f = 4)	Word	- A. M.
Timer Accumulator Value	Tf:n.ACC	T4:0.ACC – T4:255.ACC, T9:0.ACC – T255:255.ACC		
Counter flag	C:n	<b>C</b> :0 - <b>C</b> :255, (f = 5)	Word	
	<b>C</b> f:n	C5:0 - C5:255, C9:0 - C255:255		21.1
Counter Preset Value	C:n.PRE	<b>C</b> :0.PRE – <b>C</b> :255.PRE, (f = 5)	Word	
	Cf:n.PRE	C5:0.PRE - C5:255.PRE, C9:0.PRE - C255:255.PRE		54. <sup>38</sup>

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# **DUP** Series HMI Connection Manual

Туре	Format	Read/Write Range	Data Length	Note
	Word No. (n) Slot No. (s) File No. (f)			
Counter Accumulator Value	<b>C</b> :n.ACC	<b>C</b> :0.ACC – <b>C</b> :255.ACC, (f = 5)	Word	
	<b>C</b> f:n.ACC	C5:0.ACC – C5:255.ACC, C9:0.ACC – C255:255.ACC		51.15
Control file	<b>R</b> :n	$\mathbf{R}:0 - \mathbf{R}:255$ , (f = 6)	Word	
Control file	<b>R</b> f:n	<b>R</b> 6:0 - <b>R</b> 6:255, <b>R</b> 9:0 - <b>R</b> 255:255		54.11
Control Size of Bit Array	<b>R</b> :n.LEN	<b>R</b> :0.LEN - <b>R</b> :255.LEN, (f = 6)	Word	
	<b>R</b> f:n.LEN	<b>R</b> 6:0.LEN – <b>R</b> 6:255.LEN, <b>R</b> 9:0.LEN – <b>R</b> 255:255.LEN		SV W
	<b>R</b> :n.POS	<b>R</b> :0.POS - <b>R</b> :255.POS, (f = 6)	Word	24.35
Control Reserved file	<b>R</b> f:n.POS	R6:0.POS – R6:255.POS, R9:0.POS – R255:255.POS		- A 15
latener file	N:n	<b>N</b> :0 - <b>N</b> :255, (f = 7)	Word	
integer flie	Nf:n	N7:0 - N7:255, N9:0 - N255:255		11.
Floating Point file	F:n	F:0 - F:255, (f = 8)	Double Word	
	Ff:n	F8:0 - F8:255, F9:0 - F255:255		11.
String File	<b>ST</b> f:n	<b>ST</b> 9:0 – <b>ST</b> 255:255	41 Words	
Long Word File	Lf:n	L9:0 - L255:255	Double Word	SA M

### b. Contacts

Туре	Format	PL PL PL PL PL		
	Word No. (n) Slot No. (s) File No. (f) Bit No. (b)	Read/Write Range	Note	
Output	<b>O</b> :n/b	$\mathbf{O}:0/0 - \mathbf{O}:255/15 \ (s = 0, f = 0)$		
	<b>O</b> :s.n/b	<b>O</b> :0.0/0 - <b>O</b> :255.255/15 (f = 0)	11.00	
Input	l:n/b	I:0/0 - I:255/15 (s = 0, f = 1)		
	l:s.n/b	I:0.0/0 - I:255.255/15 (f = 1)	11.	
Status	pro pro	<b>S2</b> :n/b	<b>S2</b> :0/0 - <b>S2</b> :255/15 (f = 2)	
Bit	<b>B</b> :n/b	$\mathbf{B}:0/0 - \mathbf{B}:255/15, (f = 3)$	1	
	<b>B</b> f:n/b	<b>B</b> 3:0/0 - <b>B</b> 3:255/15, <b>B</b> 9:0/0 - <b>B</b> 255:255/15		
Timer	<b>T</b> :n/b	T:0/0 - T:255/15, (f = 4)	16	
	Tf:n/b	T4:0/0 - T4:255/15, T9:0/0 - T255:255/15		
PLOT IT PLOT IT PLOT	<b>T</b> :n/EN	<b>T</b> :0/EN - <b>T</b> :255/EN, (b = 15) (f = 4)	1	
	Tf:n/EN	T4:0/EN - T4:255/EN, (b = 15), T9:0/EN - T255:255/EN (b = 15)		
PLC1.		T:n/TT	T:0/TT - T:255/TT, (b = 14) (f = 4)	57.2

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	Format		
Туре	Word No. (n) Slot No. (s) File No. (f) Bit No. (b)	Read/Write Range	Note
Output	<b>O</b> :n/b	$\mathbf{O}:0/0 - \mathbf{O}:255/15 \ (s = 0, f = 0)$	
	<b>O</b> :s.n/b	<b>O</b> :0.0/0 - <b>O</b> :255.255/15 (f = 0)	(CA .)Y
la se st	l:n/b	I:0/0 - I:255/15 (s = 0, f = 1)	
Input	l:s.n/b	I:0.0/0 - I:255.255/15 (f = 1)	67 X
Status	<b>S2</b> :n/b	<b>\$2</b> :0/0 - <b>\$2</b> :255/15 (f = 2)	
PLC/ PLC/ PLC	<b>B</b> :n/b	B:0/0 - B:255/15, (f = 3)	57.2
Bit	<b>B</b> f:n/b	<b>B</b> 3:0/0 - <b>B</b> 3:255/15, <b>B</b> 9:0/0 - <b>B</b> 255:255/15	1
PLC1.it PLC1.it PLC	<b>T</b> f:n/TT	T4:0/TT - T4:255/TT, (b = 14) T9:0/TT - T255:255/TT (b = 14)	C 1 .34
	T:n/DN	T:0/TT - T:255/TT, (b = 13), (f = 4)	CA 34
pLO pLO pLO	Tf:n/DN	T4:0/TT - T4:255/TT, (b = 13) T9:0/TT - T255:255/TT (b = 13)	
PLON" PLON" PLO	T:n.PRE/b	<b>T</b> :0.PRE/0 - <b>T</b> :255.PRE/15, (f = 4)	
Timer Preset Value	Tf:n.PRE/b	T4:0.PRE/0 - T4:255.PRE/15, T9:0.PRE/0 - T255:255.PRE/15	CA . <sup>33</sup>
	T:n.ACC/b	T:0.ACC/0 - T:255.ACC/15, (f = 4)	
Timer Accumulator Value	Tf:n.ACC/b	T4:0.ACC/0 – T4:255.ACC/15, T9:0.ACC/0 – T255:255.ACC/15	C/ .W
	C:n/b	<b>C</b> :0/0 - <b>C</b> :255/15, (f = 5)	$c_{1}\Lambda$
PLC PLC PLC	Cf:n/b	<b>C</b> 5:0/0 - <b>C</b> 5:255/15, <b>C</b> 9:0/0 - <b>C</b> 255:255/15	]
	<b>C</b> :n/CU	<b>C</b> :0/CU - <b>C</b> :255/CU, (b = 15) (f = 5)	CA 35
	<b>C</b> f:n/CU	C5:0/CU - C5:255/CU, (b = 15) C9:0/CU - C255:255/CU (b = 15)	
PLC1." PLC1." PLC	C:n/CD	<b>C</b> :0/CD - <b>C</b> :255/CD, (b = 14) (f = 5)	07.5
pLC1. <sup>if</sup> pLC1. <sup>if</sup> pLC	<b>C</b> f:n/CD	C5:0/CD - C5:255/CD, (b = 14) C9:0/CD - C255:255/CD (b = 14)	CV 32
	<b>C</b> :n/DN	<b>C</b> :0/DN - <b>C</b> :255/DN, (b = 13) (f = 5)	
Counter flag	<b>C</b> f:n/DN	C5:0/DN - C5:255/DN, (b = 13) C9:0/DN - C255:255/DN (b = 13)	сл. <sup>37</sup>
	C:n/OV	<b>C</b> :0/OV - <b>C</b> :255/OV, (b = 12) (f = 5)	A 35
plus plus plus	<b>C</b> f:n/OV	C5:0/OV - C5:255/OV, (b = 12) C9:0/OV - C255:255/OV (b = 12)	
PLC1." PLC1." PLC	<b>C</b> :n/UN	<b>C</b> :0/UN - <b>C</b> :255/UN, (b = 11) (f = 5)	
olot it olot it olo	<b>C</b> f:n/UN	C5:0/UN - C5:255/UN, (b = 11) C9:0/UN - C255:255/UN (b = 11)	
	<b>C</b> :n/UA	<b>C</b> :0/UA - <b>C</b> :255/UA, (b = 10) (f = 5)	
PLC1.11 PLC1.11 PLC	<b>C</b> f:n/UA	C5:0/UA - C5:255/UA, (b = 10) C9:0/UA - C255:255/UA (b = 10)	фл. <sup>30</sup>

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	Format Word No. (n) Slot No. (s) File No. (f) Bit No. (b)	) Read/Write Range	Note
Туре			
Output	<b>O</b> :n/b	$\mathbf{O}:0/0 - \mathbf{O}:255/15 \ (s = 0, f = 0)$	
	<b>O</b> :s.n/b	<b>O</b> :0.0/0 - <b>O</b> :255.255/15 (f = 0)	C1 .M
laaut	l:n/b	I:0/0 - I:255/15 (s = 0, f = 1)	
input	l:s.n/b	I:0.0/0 - I:255.255/15 (f = 1)	01.1
Status	<b>S2</b> :n/b	<b>S2</b> :0/0 - <b>S2</b> :255/15 (f = 2)	
Di+	<b>B</b> :n/b	B:0/0 - B:255/15, (f = 3)	C.V
DIL	<b>B</b> f:n/b	<b>B</b> 3:0/0 - <b>B</b> 3:255/15, <b>B</b> 9:0/0 - <b>B</b> 255:255/15	
PLO'." PLO'." PLO	C:n.PRE/b	<b>C</b> :0.PRE/0 - <b>C</b> :255.PRE/15, (f = 5)	07.7
Counter	<b>C</b> f:n.PRE/b	C5:0.PRE/0 - C5:255.PRE/15, C9:0.PRE/0 - C255:255.PRE/15	
	<b>C</b> :n.ACC/b	<b>C</b> :0.PRE/0 - <b>C</b> :255.PRE/15, (f = 5)	
Counter Accumulator Value	<b>C</b> f:n.ACC/b	C5:0.PRE/0 - C5:255.PRE/15, C9:0.PRE/0 - C255:255.PRE/15	CV .W
	<b>R</b> :n/b	$\mathbf{R}:0/0 - \mathbf{R}:255/15$ , (f = 6)	
PLC1.IT PLC1.IT PLC1	<b>R</b> f:n/b	<b>R</b> 6:0/0 – <b>R</b> 6:255/15, <b>R</b> 9:0/0 – <b>R</b> 255:255/15	CV .W
1 A A A A A A A A A A A A A A A A A A A	<b>R</b> :n/EN	R:0/EN - R:255/EN, (b = 15) (f = 6)	76.7
plu. plu. plu	<b>R</b> f:n/EN	R6:0/EN - R6:255/EN, (b = 15) R9:0/EN - R255:255/EN (b = 15)	
PLC1.it PLC1.it PLC	R:n/EU	R:0/EU - R:255/EU, (b = 14) (f = 6)	CV .X
	<b>Rf:</b> n/EU	<b>R</b> 6:0/EU - <b>R</b> 6:255/EU, (b = 14) <b>R</b> 9:0/EU - <b>R</b> 255:255/EU (b = 14)	A 35
PLC PLC PLC	<b>R</b> :n/DN	R:0/DN - R:255/DN, (b = 13) (f = 6)	
PLC1.IT PLC1.IT PLC	<b>R</b> f:n/DN	R6:0/DN - R6:255/DN, (b = 13) R9:0/DN - R255:255/DN (b = 13)	C1. <sup>38</sup>
	<b>R:</b> n/EM	$\mathbf{R}:0/\mathbf{EM} - \mathbf{R}:255/\mathbf{EM}, (b = 12) (f = 6)$	
Control	<b>Rf:</b> n/EM	R6:0/EM - R6:255/EM, (b = 12) R9:0/EM - R255:255/EM (b = 12)	CV 38
26.0	<b>R</b> :n/ER	R:0/ER - R:255/ER, (b = 11) (f = 6)	
plo1" plo1" plo1	<b>R</b> f:n/ER	R6:0/ER - R6:255/ER, (b = 11) R9:0/ER - R255:255/ER (b = 11)	0.7.5
	<b>R</b> :n/UL	R:0/UL - R:255/UL, (b = 10) (f = 6)	01.10
	<b>R</b> f:n/UL	R6:0/UL - R6:255/UL, (b = 10) R9:0/UL - R255:255/UL (b = 10)	
PLC1." PLC1." PLC	<b>R</b> :n/IN	R:0/IN - R:255/IN, (b = 9) (f = 6)	() ^ ^
	<b>R</b> f:n/IN	R6:0/IN - R6:255/IN, (b = 9) R9:0/IN - R255:255/IN (b = 9)	- A.N
PL- PL- PL-	<b>R</b> :n/FD	R:0/FD - R:255/FD, (b = 8) (f = 6)	
alot if alot if alo	<b>R</b> f:n/FD	R6:0/FD - R6:255/FD, (b = 8) R9:0/FD - R255:255/FD (b = 8)	CA <sup>3X</sup>

	Format			
Туре	Word No. (n) Slot No. (s) File No. (f) Bit No. (b)	Read/Write Range	Note	
Output	<b>O</b> :n/b	$\mathbf{O}:0/0 - \mathbf{O}:255/15 \ (s = 0, f = 0)$		
	<b>O</b> :s.n/b	<b>O</b> :0.0/0 - <b>O</b> :255.255/15 (f = 0)	0 A .X	
loout	l:n/b	I:0/0 – I:255/15 (s = 0, f = 1)		
Input	l:s.n/b	I:0.0/0 - I:255.255/15 (f = 1)		
Status	<b>S2</b> :n/b	<b>S2</b> :0/0 - <b>S2</b> :255/15 (f = 2)		
PLON" PLON" PLO	<b>B</b> :n/b	<b>B</b> :0/0 - <b>B</b> :255/15, (f = 3)	5A.M	
סונ	<b>B</b> f:n/b	<b>B</b> 3:0/0 - <b>B</b> 3:255/15, <b>B</b> 9:0/0 - <b>B</b> 255:255/15		
PLON" PLON" PLON	<b>R</b> :n.LEN/b	$\mathbf{R}$ :0.LEN/0 - $\mathbf{R}$ :255.LEN/15, (f = 6)	5A.N	
Control size of bit array	<b>R</b> f:n.LEN/b	<b>R</b> 6:0.LEN/0 – <b>R</b> 6:255.LEN/15, <b>R</b> 9:0.LEN/0 – <b>R</b> 255:255.LEN/15		
Control Reserved	<b>R</b> :n.POS/b	$\mathbf{R}: 0.\text{POS}/0 - \mathbf{R}: 255.\text{POS}/15, (f = 6)$		
	<b>R</b> f:n.POS/b	<b>R</b> 6:0.POS/0 – <b>R</b> 6:255.POS/15, <b>R</b> 9:0.POS/0 – <b>R</b> 255:255.POS/15	ch M	
Integer	N:n/b	<b>N</b> :0/0 - <b>N</b> :255/15, (f = 7)		
	<b>N</b> f:n/b	N7:0/0 - N7:255/15, N9:0/0 - N255:255/15	57.W	
Long Word File	Lf:n/b	L9:0/0 - L255:255/31	N. A.	



- PLC IP address must be set first on RSLogix 5000 software and downloaded to PLC; otherwise PLC IP address can not be read. For detailed information about the setting methods, please refer to RSLogix 5000 software user manual.
- 2) Please do not change the COM port setting.
- 3) In this driver, PLC station number has no function.