# Omron CJ1/CS1 Series PLC

(Supporting OMRON CS/CJ/CP1/CQM/CV/CVM Series of PLC)

## **HMI Factory Setting:**

Baud rate: 9600, 7, Even, 2 (RS-232)

Controller Station Number: 0

Control Area / Status Area: D0 / D10

#### Connection

#### a. RS-232 (DOP-A/AE/AS, DOP-B Series)

#### CJIM CPU module (RS-232)

DOP Series 9 pin D-sub (RS-232)	Controller 9 pin D-SUB male (RS-232)	
RXD (2)	(2) TXD	
TXD (3)	(3) RXD	
GND (5)	(9) SG	
Provide Brough Brough	(4) RS	

#### b. RS-232 (DOP-A/AE/AS, DOP-B Series)

DOP Series 9 pin D-sub (RS-	-232) 2	PLO	troller 3 male(RS-232)
RXD (2) —	21 C1 if	7 C <sup>1 jt</sup>	(2) TXD
TXD (3)	21 C1 <sup>31</sup>		(3) RXD
GND (5) —	P/C/ X	<u> </u>	(7) SG
Provide Provide	PLC1.IT	FI CAW	(4) RS

#### c. RS-422 (DOP-A/AE Series)

DOP Series Controller
9 pin D-SUB male (RS-422) 9 pin D-SUB male (RS-422)

RXD- (1) (9) TXD
RXD+ (2) (5) TXD+

TXD+ (3) (1) RXD+

#### d. RS-422 (DOP-AS35/AS38/AS57 Series)

DOP Series Controller
9 pin D–SUB male (RS–422) 9 pin D–SUB male (RS–422)

R- (9) TXD–

R+ (5) TXD+

T+ (1) RXD+

#### e. RS-422 (DOP-B Series)

DOP Series Controller
9 pin D-SUB male (RS-422) 9 pin D-SUB male (RS-422)

RXD- (9) (9) TXD
RXD+ (4) (5) TXD+

TXD+ (1) (1) RXD+

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

## a. Registers

PLC1.ii PLC1.ii PLC	Format	PLC1.ii PLC1.ii PI	01. <sup>11</sup> PLC1. <sup>1</sup>	PLC1.II
Туре	Bank No.(m)	Read/Write Range	Data Length	Note
PLC1 II PLC1 II PLC	Word No.(n)	PLC1.ir PLC1.ir PI	21.11 PLC1.11	PLC1.II
CIO area	CIOn	<b>CIO</b> 0 - <b>CIO</b> 9999	Word	
Hold area	Hn O	<b>H</b> 0 - <b>H</b> 1535	Word	PLC1.II
Auxiliary area	<b>A</b> n	<b>A</b> 0 - <b>A</b> 11535	Word	1
DM area	Dn	<b>D</b> 0 - <b>D</b> 65535	Word	PLC1.II
EM area	Em.n	E0.0 - E12.65535	Word	
Timer PVs	Tn	T0 - T9999	Word	PLC1.II
Counter PVs	Cn	<b>C</b> 0 - <b>C</b> 9999	Word	
Work area	<b>W</b> n	<b>W</b> 0 – <b>W</b> 999	Word	PLC1.II
EM Current Bank area	<b>EM</b> n	<b>EM</b> 0 – <b>EM</b> 65535	Word	
Index Register	IRn	IR0 - IR99	Double Word	PLC1.II
DR area	<b>DR</b> n	<b>DR</b> 0 - <b>DR</b> 99	Word	
TK area	<b>TK</b> n	<b>TK</b> 0 - <b>TK</b> 1022	Byte	Read only, <u>3</u>

## b. Contacts

Pr Pr Pr	Format	Fr Fr Fr	V.
Туре	Bank No.(m) Word No.(n) Bit No.(b)	Read/Write Range	Note
CIO area	<b>CIOB</b> nbb	<b>CIOB</b> 000 - <b>CIOB</b> 999915	A7-
Hold area	<b>HB</b> nbb	<b>HB</b> 000 - <b>HB</b> 153515	
Auxiliary area	<b>AB</b> nbb	<b>AB</b> 000 - <b>AB</b> 1153515	<u>2</u>
DM area	<b>DB</b> nbb	<b>DB</b> 000 - <b>DB</b> 6553515	
EM area	<b>EB</b> m.nbb	<b>EB</b> 0.000 - <b>EB</b> 12.6553515	T.V.
Timer area	<b>TB</b> b	TB0 - TB9999	Read only
Counter area	<b>CB</b> b	<b>CB</b> 0 - <b>CB</b> 9999	Read only
Work area	<b>WB</b> nbb	<b>WB</b> 000 – <b>WB</b> 99915	- CV.)(
EM Current Bank area	<b>EMB</b> nbb	EMB000 - EMB6553515	7 -
Index Register	<b>IRB</b> nbb	IRB000 - IRB9931	
DR area	<b>DRB</b> nbb	<b>DRB</b> 000 - <b>DRB</b> 9915	7 -
TK area	<b>TKB</b> nbb	TKB000 - TKB1022.15	Read only, <u>3</u>

# NOTE

- 1) **A**0 **A**447 are read only.
- 2) **AB**000 **AB**44715 are read only.
- 3) The address of register TK must be an even number.