Siemens S7 LOGO (ISO TCP)

HMI Factory Setting:

Controller IP Address: 192.168.0.1

Controller COM Port: 102

Controller Station Number: 2

Control Area / Status Area: DBWO / DBW20

Connection

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

Definition of PLC Read/Write Address

a. Registers

	Format			
Туре	Word No.(n)	Read/Write Range	Data Length	Note
	Bank No.(m)			
Input Image	IW n	IWO – IW65534	Word	
	ID n	ID0 - ID65532	Double Word	
Output Image	QWn	QW 0 – QW 65534	Word	
	QDn	QD 0 – QD 65532	Double Word	
Internal Bits	MWn	MW0 – MW65534	Word	
	MDn	MD 0 – MD 65532	Double Word	
Data Area	DB m.DBWn	DB 1.DBWO –	Word	<u>1</u>
		DB 255.DBW65534		
	DB m.DBDn	DB1.DBD0 -	Double Word	<u>1</u>
		DB 255.DBW65532		
	DBWn	DBW 0 – DBW 65534	Word	
Data Area (DB10)	DBDn	DBD 0 – DBD 65532	Double Word	
	VW n	VW 0 – VW 65534	Word	
	VD n	VD 0 – VD 65532	Double Word	
Timer	Tn	T0 – T65535	Word	<u>2</u>
Counter	Cn	C 0 – C 65535	Double Word	<u>3</u>

b. Contacts

	Format		
Туре	Word No.(n)	Read/Write Range	Note
	Bank No.(m)	Read/Write Range	Note
	Bit No.(b)		
Input Image	In.b	10.0 - 165535.7	
Output Image	Q n.b	Q0.0 - Q65535.7	
Internal Bits	M n.b	M0.0 - M65535.7	
Data Area	DB m.DBXn.b	DB 1.DBX0.0 – DB 255.DBX65535.7	
Data Area (DB10)	DBX n.b	DBX 0.0 – DBX 65535.7	
	V n.b	V 0.0 – V 65535.7	

NOTE

- 1) Except register Tn and Cn, data type of register is Byte and its order is opposite to usual controller, for example:
 - 1 \ IW3 is a word which combined from IB3 and IB4 \, High Byte of IW3 is IB3 \; Low Byte of IW3 is IB4.
 - 2 ID3 is Double Word which combined from IB3, IB4, IB5 and IB6, and its order from highest to lowest is IB3, IB4, IB5 and IB6.

And please be attentive to use these registers, because their Data type is different with Data Length, it will need more than one register for each access, for example:

- 1 \cdot AIW6 which Data Type is Byte and Data Length is 1 Word, when it used for one word Numeric Entry , it will occupy two addresses AIB6 and AIB7 \circ
- 2 MD12 which Data Type is Byte and Data Length is Double Word, when it used for one word Numeric Entry, it will occupy four addresses MB12,MB13,MB14 and MB15; But data only stored in MB14 and MB15.
- 3. IW3 which Data Type is Byte and Data Length is 1 Word, when it used for double word Numeric Entry, it will occupy for addresses IB3,IB4,IB5 and IB6, order from highest to lowest byte is IB5,IB6,IB3 and IB4.