DUP Series HMI Connection Manual

Allen-Bradley SLC5

HMI Factory Setting:

Baud rate: 19200. 8. None. 1 Controller Station Number: 1 Control Area / Status Area: B3:0/B3:10

Connection



Definition of PLC Read/Write Address

a. Registers

Туре	Format Word No. (n) Slot No. (s) File No. (f)	Read/Write Range	Data Length	Note
Output file	O:n	O :0 - O :255 (s = 0, f = 0)	Word	51.5
	O :s.n	O :0.0 - O :255.255 (f = 0)		TI N
Input file	l:n	I:0 - I:255 (s = 0, f = 1)	Word	
1100 1100 1100	l:s.n	l:0.0 – l:255.255 (f = 1)		1.11
Status file	S2 :n	S2 :0 - S2 :255 (f = 2)	Word	
Bit file	B f:n	B 3:0 - B 3:255, B 9:0 - B 255:255	Word	N. N.
Timer flag	T f:n	T 4:0 – T 4:255, T 9:0 –	Word	
		T 255:255	or C1. ³¹	N. N.

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	Format			- A 15
Туре	Word No. (n) Slot No. (s) File No. (f)	Read/Write Range	Data Length	Note
Timer Preset Value	Tf:n.PRE	T4:0.PRE - T4:255.PRE, T9:0.PRE - T255:255.PRE	Word	76.75
Timer Accumulator Value	Tf:n.ACC	T4:0.ACC – T4:255.ACC, T9:0.ACC – T255:255.ACC	PLC1.11 PLS	37. X
Counter flag	C f:n	C 5:0 - C 5:255, C 9:0 - C 255:255	Word	N.N.
Counter Preset Value	C f:n.PRE	C5:0.PRE - C5:255.PRE, C9:0.PRE - C255:255.PRE	PLO1 M PL	5A. X
Counter Accumulator Value	C f:n.ACC	C 5:0.ACC – C 5:255.ACC, C 9:0.ACC – C 255:255.ACC	PLON M PL	31. M
Control file	R f:n	R 6:0 – R 6:255, R 9:0 – R 255:255	Word	A X
Control Size of Bit Array	R f:n.LEN	R 6:0.LEN – R 6:255.LEN, R 9:0.LEN – R 255:255.LEN	PLC1 II PLI	24.35
Control Reserved file	R f:n.POS	R 6:0.POS – R 6:255.POS, R 9:0.POS – R 255:255.POS	PLC1.11 PL	24.35
Integer file	N f:n	N7:0 - N7:255, N9:0 - N255:255	Word	51 M
Floating Point file	F f:n	F8:0 - F8:255, F9:0 - F255:255	Double Word	
String File	ST f:n	ST 9:0 – ST 255:255	41 Words	<u>3</u> 4.%
Long Word File	Lf:n	L9:0 - L255:255	Double Word	

b. Contacts

PLC1.M		Format	alonin alonin alonin alonin al	
PLOAN	Туре	Word No. (n) Slot No. (s) File No. (f) Bit No. (b)	Read/Write Range	Note
Output	PLO. PLO	O :n/b	O:0/0 - O:255/15 (s = 0, f = 0)	
	O:s.n/b	O :0.0/0 - O :255.255/15 (f = 0)	1	
Input		l:n/b	1:0/0 - 1:255/15 (s = 0, f = 1)	
	l:s.n/b	I:0.0/0 - I:255.255/15 (f = 1)	11 1	

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Status	S2: n/b	S2 :0/0 - S2 :255/15 (f = 2)	26.0
Bit	B f:n/b	B 3:0/0 - B 3:255/15, B 9:0/0 - B 255:255/15	

	Format		
brown, brown, brow	Word No. (n)	brown brown brown brown	5 V * Y
Туре	Slot No. (s)	Read/Write Range	Note
PLC1." PLC1." PLC1	File No. (f)	PLC/11 PLC/11 PLC/11 PLC/11 PL	31.M
	Bit No. (b		
Timer	T f:n/TT	T 4:0/TT - T 4:255/TT, (b = 14)	54 M
		T9:0/TT - T255:255/TT (b = 14)	
PLOI.IT PLOI.IT PLOI	T f:n/DN	T 4:0/TT - T 4:255/TT, (b = 13)	5V.W
		T9:0/TT - T255:255/TT (b = 13)	
Timer Preset Value	Tf:n.PRE/b	T 4:0.PRE/0 – T 4:255.PRE/15,	27.34
		T 9:0.PRE/0 – T 255:255.PRE/15	
Timer Accumulator Value	Tf:n.ACC/b	T4:0.ACC/0 – T4:255.ACC/15,	51. <i>it</i>
		T9:0.ACC/0 – T255:255.ACC/15	
Counter flag	C f:n/b	C 5:0/0 - C 5:255/15, C 9:0/0 - C 255:255/15	27.72
	C f:n/CU	C 5:0/CU - C 5:255/CU, (b = 15)	
PLG1.it PLC1.it PLC1	r pLC1. ^{ir}	C 9:0/CU - C 255:255/CU (b = 15)	M. AC
	C f [·] n/CD	C5:0/CD - C5:255/CD, (b = 14)	
PLC1.it PLC1.it PLC1		C 9:0/CD - C 255:255/CD (b = 14)	N. NC
	C f·n/DN	C5:0/DN - C5:255/DN, (b = 13)	
olotin olotin olot		C 9:0/DN - C 255:255/DN (b = 13)	27.32
	\mathbf{C} f:n/OV	C 5:0/OV - C 5:255/OV, (b = 12)	
o101.11 0101.11 0101		C 9:0/OV - C 255:255/OV (b = 12)	54.38
	Cf.n/IIN	C 5:0/UN - C 5:255/UN, (b = 11)	
a ch ^{ir} a ch ^{ir} a ch		C 9:0/UN - C 255:255/UN (b = 11)	21.15
	$C f n / 11 \Delta$	C 5:0/UA - C 5:255/UA, (b = 10)	
a C ^{1, it} a C ^{1, it} a C ¹		C 9:0/UA - C 255:255/UA (b = 10)	24.38
Counter	C f [.] n PRF/b	C 5:0.PRE/0 - C 5:255.PRE/15,	
a ch ^{ir} a ch ^{ir} a ch		C 9:0.PRE/0 - C 255:255.PRE/15	51.35
Counter Accumulator Value	C f [.] n.ACC/b	C 5:0.PRE/0 - C 5:255.PRE/15,	
		C 9:0.PRE/0 - C 255:255.PRE/15	76.15

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Control	R f:n/b	R 6:0/0 - R 6:255/15, R 9:0/0 - R 255:255/15	1. 1.
PLC ¹ ^{II} PLC ¹ ^{II} PLC PLC ¹ ^{II} PLC ¹ ^{II} PLC	B f:n/FN	R6:0/EN - R6:255/EN, (b = 15)	
		R9:0/EN - R255:255/EN (b = 15)	74. 15
	Rf ·n/FU	R6:0/EU - R6:255/EU, (b = 14)	
		R9:0/EU - R255:255/EU (b = 14)	74. 15
	R f·n/DN	R6:0/DN - R6:255/DN, (b = 13)	
		R9:0/DN - R255:255/DN (b = 13)	11. 1.

PLU	PLU	PLU.	Format		
PLC1.ir	Туре		Word No. (n) Slot No. (s) File No. (f) Bit No. (b	Read/Write Range	Note
Control	PLC ^{A,M}	PLGA	Rf:n/EM	R6:0/EM - R6:255/EM, (b = 12) R9:0/EM - R255:255/EM (b = 12)	24.35
PLC1 M			R f:n/ER	R 6:0/ER - R 6:255/ER, (b = 11) R 9:0/ER - R 255:255/ER (b = 11)	51 ir
PLC1.it			R f:n/UL	R6:0/UL - R6:255/UL, (b = 10) R9:0/UL - R255:255/UL (b = 10)	n ir
PLC1.it			R f:n/IN	R6:0/IN - R6:255/IN, (b = 9) R9:0/IN - R255:255/IN (b = 9)	<u>71. p</u>
PLC1.it			R f:n/FD	R6:0/FD - R6:255/FD, (b = 8) R9:0/FD - R255:255/FD (b = 8)	24, 24
Control siz	e of bit arra	ıy	R f:n.LEN/b	R 6:0.LEN/0 – R 6:255.LEN/15, R 9:0.LEN/0 – R 255:255.LEN/15	24.15
Control Re	served	PLC1	R f:n.POS/b	R 6:0.POS/0 - R 6:255.POS/15, R 9:0.POS/0 - R 255:255.POS/15	51.55
Integer	a Ch ⁱⁿ		N f:n/b	N7:0/0 - N7:255/15, N9:0/0 - N255:255/15	21 IX
Long Word	File		L f:n/b	L9:0/0 - L255:255/31	

1) This protocol only supports CRC Error Check.