SUBMITTALS

Saigon Paper Corporation

NX300-C100 Turbo Blower
Suction Louver Type

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3. Communication Address Map

3.1. LS & DELTA Controller Interface Address Map

※ (Address±1) can be performed when communication address matches due to MODBUS Protocol feature.

※ Command value is initialized after 2~5 seconds after entering the value considering communication stabilize during start and stop command.

※ **NS**: Apply surge speed, **NC**: Apply max. speed based on current temperature, **NM**: Apply mechanical max. speed

※ **DI+TP, DI+AI** have no association with communication since they are linked with remote device using hardwiring.

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Address		Item	Description	Type	Format	Comment
Blower	Modbus					
D3000	3000	N1	Motor speed	REAL	0~999999	Unit : rpm
D3001	3001					
D3002	3002	Wm	Motor input power	REAL	0~9999.9	Unit : kW
D3003	3003					
D3004	3004	Pd	Discharge pressure	REAL	0~9999.99	Unit : kgf/㎠ / kPa / PSI
D3005	3005					
D3006	3006	dPi	Inlet filter DP	REAL	0~99.9999	Unit : kgf/㎠ / kPa / PSI
D3007	3007					
D3008	3008	Ts	Suction temperature	REAL	0~9999.99	Unit : ℃ / ℉
D3009	3009					
D3010	3010	Td	Discharge temperature	REAL	0~9999.99	Unit : ℃ / ℉
D3011	3011					
D3012	3012	Tm	Motor temperature	REAL	0~9999.99	Unit : ℃ / ℉

D3013	3013					
D3014	3014	Tb	Bearing temperature	REAL	0~9999.99	Unit : ℃ / ℉
D3015	3015					
D3016	3016	Xm	Motor vibration	REAL	0~999.99	Unit : ㎛ / mil
D3017	3017					
D3018	3018	Q	Suction air flow	REAL	0~99999.9	Unit : ㎥/min / N㎥/min / N㎥/min(*) / CFM / SCFM
D3019	3019					
D3020	3020	Nc_max	Max speed based on Suction temperature	REAL	0~999999	Unit : rpm / mg/ℓ
D3021	3021					
D3022	3022	B_status	Blower status	BINARY	0~1000000	※ refer to page 'C-12'
D3023	3023	Nscm	Max speed limit condition	BINARY	0~100	※ refer to page 'C-16'
D3024	3024	Ctrl_mode	Control mode status	BINARY	0~1000	※ refer to page 'C-13'
D3025	3025	Site_mode	Remote mode status	BINARY	0~1000	※ refer to page 'C-14'
D3026	3026	Surge_mode	Protection mode status	BINARY	0~1000	※ refer to page 'C-15'
D3027	3027	T_run_min	Total running time	INT	0~60	Unit : Minute
D3028	3028	T_run_hour	Total running time	DINT	0~4294967295	Unit : Hour
D3029	3029					
D3030	3030	C_run_hour	Current running time	DINT	0~4294967295	Unit : Hour
D3031	3031					
D3032	3032	Ks	(Neuros only use)	REAL		
D3033	3033					
D3034	3034	Qo	(Neuros only use)	REAL		
D3035	3035					
D3036	3036	Spare				
D3037	3037					
D3038	3038	Ticr	(Neuros only use)	REAL		
D3039	3039					
D3040	3040	F_history_order	Fault history number	INT	0~25	

D3041	3042	F_history_code	Fault history code	INT	0~9999	
D3042	3043	F_history_value	Fault history value	REAL	0~99999.999	
D3043	3043					
D3044	3044	F_history_year	Fault history time	INT	0~99	Unit : Year
D3045	3045	F_history_month	Fault history time	INT	0~12	Unit : Month
D3046	3046	F_history_day	Fault history time	INT	0~31	Unit : Day
D3047	3047	F_history_hour	Fault history time	INT	0~24	Unit : Hour
D3048	3048	F_history_min	Fault history time	INT	0~60	Unit : Min
D3049	3049	Spare				
D3050	3050	N1_max	Motor speed limit	REAL	0~999999	Unit : rpm
D3051	3051					
D3052	3052	Pi_max	Inlet filter DP limit	REAL	0~999.999	Unit : kgf/㎠ / kPa / PSI
D3053	3053					
D3054	3054	Xm_max	Moto vibration limit	REAL	0~999.99	Unit : ㎛ / mil
D3055	3055					
D3056	3056	Pd_max	Discharge pressure limit	REAL	0~9999.99	Unit : kgf/㎠ / kPa / PSI
D3057	3057					
D3058	3058	Ts_max	Suction temperature limit	REAL	0~9999.99	Unit : ℃ / ℉
D3059	3059					
D3060	3060	Td_max	Discharge temperature limit	REAL	0~9999.99	Unit : ℃ / ℉
D3061	3061					
D3062	3062	Tm_max	Motor temperature limit	REAL	0~9999.99	Unit : ℃ / ℉
D3063	3063					
D3064	3064	Tb_max	Bearing temperature limit	REAL	0~9999.99	Unit : ℃ / ℉
D3065	3065					
D3066	3066	Wm_max	Motor input power limit	REAL	0~9999.9	Unit : kW
D3067	3067					
D3068	3068	Ox	D.O(Dissolved oxygen)	REAL	0~999.9	Unit : rpm / mg/ℓ

D3069	3069					
D3070	3070	Warning_code	Warning code	INT	0~9999	
D3071	3071	Fault_code	Fault coed	INT	0~9999	
D3072	3072	Heart_bit	Communication check bit	BIT	0~1	
D3073	3073	Spare				
D3074	3074	N1_min	Minimum speed	REAL	0~999999.9	Unit : rpm
D3075	3075					
D3076	3076	Input_current	Input current (Approx.)	REAL	0~9999.99	Unit : A
D3077	3077					

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Address		Item	Description	Type	Format	Comment
Blower	Modbus					
D3180	3180	Target	Percent of target value	REAL	0~100.0	Unit : %
D3181	3181					
D3182	3182	Start_stop	Start / stop command	INT	1234 / 4321	1234 : Start, 4321 : Stop

3.2. AB MicroLogix 1400 & RS Controller Interface Address Map

※ Command value is initialized after **2~5** seconds after entering the value considering communication stabilize during start and stop command.

※ **NS**: Apply surge speed, **NC**: Apply max. speed based on current temperature, **NM**: Apply mechanical max. speed

※ **DI+TP, DI+AI** have no association with communication since they are linked with remote device using hardwiring.

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Address		Item	Description	Type	Format	Comment
Blower	Modbus					
F10:0	0	N1	Motor speed	REAL	0~999999	Unit : rpm
F10:1	2	Wm	Motor input power	REAL	0~9999.9	Unit : kW
F10:2	4	Pd	Discharge pressure	REAL	0~9999.99	Unit : kgf/㎠ / kPa / PSI
F10:3	6	dPi	Inlet filter DP	REAL	0~99.9999	Unit : kgf/㎠ / kPa / PSI
F10:4	8	Ts	Suction temperature	REAL	0~9999.99	Unit : ℃ / ℉
F10:5	10	Td	Discharge temperature	REAL	0~9999.99	Unit : ℃ / ℉
F10:6	12	Tm	Motor temperature	REAL	0~9999.99	Unit : ℃ / ℉
F10:7	14	Tb	Bearing temperature	REAL	0~9999.99	Unit : ℃ / ℉
F10:8	16	Xm	Motor vibration	REAL	0~999.99	Unit : ㎛ / mil
F10:9	18	Q	Suction aire flow	REAL	0~99999.9	Unit : ㎥/min / N㎥/min / N㎥/min(*) / CFM / SCFM
F10:10	20	Nc_max	Max speed based on Suction temperature	REAL	0~999999	Unit : rpm / mg/ℓ
N11:10	22	B_status	Blower status	BINARY	0~1000000	※ refer to Page 'C-12'
N11:11	23	Nscm	Max speed limit condition	BINARY	0~100	※ refer to Page 'C-16'
N11:12	24	Ctrl_mode	Control mode status	BINARY	0~1000	※ refer to Page 'C-13'

N11:13	25	Site_mode	Remote mode status	BINARY	0~1000	※ refer to Page 'C-14'
N11:14	26	Surge_mode	Protection mode status	BINARY	0~1000	※ refer to Page 'C-15'
N11:15	27	T_run_min	Total running time	INT	0~60	Unit : Minute
F10:11	28	T_run_hour	Total running time	DINT	0~4294967295	Unit : Hour
F10:12	30	C_run_hour	Current running time	DINT	0~4294967295	Unit : Hour
F10:13	32	Ks	(Neuros only use)	REAL		
F10:14	34	Qo	(Neuros only use)	REAL		
F10:15	36	Spare				
F10:16	38	Ticr	(Neuros only use)	REAL		
F10:17	40	N1_max	Motor speed limit	REAL	0~999999	Unit : rpm
F10:18	42	Pi_max	Inlet filter DP limit	REAL	0~999.999	Unit : kgf/㎠ / kPa / PSI
F10:19	44	Xm_max	Motor vibration limit	REAL	0~999.99	Unit : ㎛ / mil
F10:20	46	Pd_max	Discharge pressure limit	REAL	0~9999.99	Unit : kgf/㎠ / kPa / PSI
F10:21	48	Ts_max	Suction temperature limit	REAL	0~9999.99	Unit : ℃ / ℉
F10:22	50	Td_max	Discharge temperature limit	REAL	0~9999.99	Unit : ℃ / ℉
F10:23	52	Tm_max	Motor temperature limit	REAL	0~9999.99	Unit : ℃ / ℉
F10:24	54	Tb_max	Bearing temperature limit	REAL	0~9999.99	Unit : ℃ / ℉
F10:25	56	Wm_max	Motor input power limit	REAL	0~9999.9	Unit : kW
F10:26	58	Ox	D.O(Dissolved oxygen)	REAL	0~999.9	Unit : rpm / mg/ℓ
N11:16	60	Warning_code	Warning code	INT	0~9999	
N11:17	61	Fault_code	Fault code	INT	0~9999	
N11:18	62	Heart_bit	Communication check bit	BIT	0~1	
N11:19	63	Spare				
F10:27	64	N1_min	Minimum speed	REAL	0~999999.9	Unit : rpm

F10:28	66	Input_current	Input current(Approx.)	REAL	0~9999.99	Unit : A

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Address		Item	Description	Type	Format	Comment
Blower	Modbus					
F10:30	100	Target	Percent of Target Value	REAL	0~100.0	Unit : %
N11:0	102	Start_stop	Start / Stop command	INT	1234 / 4321	1234 : Start, 4321 : Stop

3.3. AB CompactLogix Controller Interface Address Map

※ Command value is initialized after 2~5 seconds after entering the value considering communication stabilize during start and stop command.

※ **NS**: Apply surge speed, **NC**: Apply max. speed based on current temperature, **NM**: Apply mechanical max. speed

※ **DI+TP, DI+AI** have no association with communication since they are linked with remote device using hardwiring.

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Blower address	Item	Description	Type	Format	Comment
MCP_Float_Data[0]	dPi	Inlet filter DP	REAL	0~99.9999	Unit : kgf/㎠ / kPa / PSI
MCP_Float_Data[1]	Pd	Discharge pressure	REAL	0~9999.99	Unit : kgf/㎠ / kPa / PSI
MCP_Float_Data[2]	Xm	Motor vibration	REAL	0~999.99	Unit : ㎛ / mil
MCP_Float_Data[3]	Ox	D.O(Dissolved oxygen)	REAL	0~99.0	Unit : rpm / mg/ℓ
MCP_Float_Data[4]	N1	Motor speed	REAL	0~999999.0	Unit : rpm
MCP_Float_Data[5]	Wm	Motor input power	REAL	0~9999.9	Unit : kW
MCP_Float_Data[6]	Ts	Suction temperature	REAL	0~9999.99	Unit : ℃ / ℉
MCP_Float_Data[7]	Td	Discharge temperature	REAL	0~9999.99	Unit : ℃ / ℉
MCP_Float_Data[8]	Tb	Bearing temperature	REAL	0~9999.99	Unit : ℃ / ℉
MCP_Float_Data[9]	Tm	Motor temperature	REAL	0~9999.99	Unit : ℃ / ℉
MCP_Float_Data[10]	Q	Suction air flow	REAL	0~99999.9	Unit : ㎥/min / N㎥/min / N㎥/min(*) / CFM / SCFM
MCP_Float_Data[11]	T_Run_Hour	Total running time	REAL	0~999999999.0	Unit : Hour
MCP_Float_Data[12]	C_Run_Hour	Currnet running time	REAL	0~999999999.0	Unit : Hour
MCP_Float_Data[13]	Spare				

MCP_Float_Data[14]	NC_Max	Max speed based on Suction temperature	REAL	0~999999	Unit : rpm
MCP_Float_Data[15]	dPi_Max	Inlet filter DP limit	REAL	0~99.9999	Unit : kgf/㎠ / kPa / PSI
MCP_Float_Data[16]	Xm_Max	Motor vibration limit	REAL	0~999.99	Unit : ㎛ / mil
MCP_Float_Data[17]	Pd_Max	Discharge pressure limit	REAL	0~9999.99	Unit : kgf/㎠ / kPa / PSI
MCP_Float_Data[18]	Ts_Max	Suction temperature limit	REAL	0~9999.99	Unit : ℃ / ℉
MCP_Float_Data[19]	Td_Max	Discharge temperature limit	REAL	0~9999.99	Unit : ℃ / ℉
MCP_Float_Data[20]	Tb_Max	Bearing temperature limit	REAL	0~9999.99	Unit : ℃ / ℉
MCP_Float_Data[21]	Tm_Max	Motor temperature limit	REAL	0~9999.99	Unit : ℃ / ℉
MCP_Float_Data[22]	N1_Max	Motor speed limit	REAL	0~999999	Unit : rpm
MCP_Float_Data[23]	Wm_Max	Motor input power limit	REAL	0~9999.9	Unit : kW
MCP_Float_Data[24]	Ns	(Neuros only use)	REAL		
SCADA_Float_Data[0]	N1_Min	Minimum speed	REAL	0~999999	Unit : rpm
MCP_Integer_Data[0]	B_Status	Blower status	BINARY	0~1000000	※ refer to Page 'C-12'
MCP_Integer_Data[1]	Site_Mode	Remote mode status	INT	0~3	※ refer to Page 'C-13'
MCP_Integer_Data[2]	Ctrl_Mode	Control mode status	INT	0~3	※ refer to Page 'C-14'
MCP_Integer_Data[3]	Surge_Mode	Protection mode status	INT	0~3	※ refer to Page 'C-15'
MCP_Integer_Data[4]	Heart_Bit	Communication check bit	INT	0~65535	Periodically increased by one.
MCP_Integer_Data[5]	Fault_Code	Fault code	INT	0~9999	

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Blower address	Item	Description	Type	Format	Comment
MCP_CMD	Target	Percent of target value	REAL	0~100.0	Unit : %
MCP_Integer_Data[8]	MCP_Heart	Communication check bit	INT	0~65535	Return signal of communication check. Periodically increased by one.
MCP_Integer_Data[9]	Start_stop	Start / Stop command	INT	1~2	1 : Start / 2 : Stop

3.4. Siemens Controller Interface Address Map

※ Command value is initialized after **2~5** seconds after entering the value considering communication stabilize during start and stop command.

※ **NS**: Apply surge speed, **NC**: Apply max. speed based on current temperature, **NM**: Apply mechanical max. speed

※ **DI+TP, DI+AI** have no association with communication since they are linked with remote device using hardwiring.

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Address		Item	Description	type	Format	Comment
Blower	SCADA					
DB12.DBW0	+0	N1	Motor speed	REAL	0~999999	Unit : rpm
DB12.DBW4	+2	Wm	Motor input power	REAL	0~9999.9	Unit : kW
DB12.DBW8	+4	Pd	Discharge pressure	REAL	0~9999.99	Unit : kgf/㎠ / kPa / PSI
DB12.DBW12	+6	dPi	Inlet filter DP	REAL	0~99.9999	Unit : kgf/㎠ / kPa / PSI
DB12.DBW16	+8	Ts	Suction temperature	REAL	0~9999.99	Unit : ℃ / ℉
DB12.DBW20	+10	Td	Discharge temperature	REAL	0~9999.99	Unit : ℃ / ℉
DB12.DBW24	+12	Tm	Motor temperature	REAL	0~9999.99	Unit : ℃ / ℉
DB12.DBW28	+14	Tb	Bearing temperature	REAL	0~9999.99	Unit : ℃ / ℉
DB12.DBW32	+16	Xm	Motor vibration	REAL	0~999.99	Unit : ㎛ / mil
DB12.DBW36	+18	Q	Suction air flow	REAL	0~99999.9	Unit : ㎥/min / N㎥/min / N㎥/min(*) / CFM /
DB12.DBW40	+20	Nc_max	Max speed based on	REAL	0~999999	Unit : rpm / mg/ℓ
DB12.DBW44	+22	B_status	Blower status	BINARY	0~1000000	※ refer to page 'C-12'
DB12.DBW48	+24	Ctrl_mode	Control mode status	BINARY	0~1000	※ refer to page 'C-13'
DB12.DBW50	+25	Site_mode	Remote mode status	BINARY	0~1000	※ refer to page 'C-14'
DB12.DBW52	+26	Surge_mode	Protection mode status	BINARY	0~1000	※ refer to page 'C-15'
DB12.DBW54	+27	T_run_min	Total running time	INT	0~60	Unit : Minute

DB12.DBW56	+28	T_run_hour	Total running time	DINT	0~4294967295	Unit : Hour
DB12.DBW60	+30	C_run_hour	Current running time	DINT	0~4294967295	Unit : Hour
DB12.DBW64	+32	Ks	(Neuros only use)	REAL		
DB12.DBW68	+34	Qo	(Neuros only use)	REAL		
DB12.DBW76	+38	Ticr	(Neuros only use)	REAL		
DB12.DBW80	+40	N1_max	Motor speed limit	REAL	0~999999	Unit : rpm
DB12.DBW84	+42	Pi_max	Inlet filter DP limit	REAL	0~999.999	Unit : kgf/㎠ / kPa / PSI
DB12.DBW88	+44	Xm_max	Moto vibration limit	REAL	0~999.99	Unit : ㎛ / mil
DB12.DBW92	+46	Pd_max	Discharge pressure limit	REAL	0~9999.99	Unit : kgf/㎠ / kPa / PSI
DB12.DBW96	+48	Ts_max	Suction temperature limit	REAL	0~9999.99	Unit : ℃ / ℉
DB10.DBW100	+50	Td_max	Discharge temperature	REAL	0~9999.99	Unit : ℃ / ℉
DB12.DBW104	+52	Tm_max	Motor temperature limit	REAL	0~9999.99	Unit : ℃ / ℉
DB12.DBW108	+54	Tb_max	Bearing temperature limit	REAL	0~9999.99	Unit : ℃ / ℉
DB12.DBW112	+56	Wm_max	Motor input power limit	REAL	0~9999.9	Unit : kW
DB12.DBW116	+58	Ox	D.O(Dissolved oxygen)	REAL	0~999.9	Unit : rpm / mg/ℓ
DB12.DBW120	+60	Warning_code	Warning code	INT	0~9999	
DB12.DBW122	+61	Fault_code	Fault coed	INT	0~9999	
DB12.DBW124	+62	Heart_bit	Communication check bit	BIT	0~1	
DB12.DBW128	+64	N1_min	Minimum speed	REAL	0~999999.9	Unit : rpm
DB12.DBW132	+66	Input_current	Input current(Approx.)	REAL	0~9999.99	Unit : A

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Address		Item	Description	type	Format	Comment
Blower	SCADA					
DB12.DBW200	+100	Target	Percent of target value	REAL	0~100.0	Unit : %
DB12.DBW204	+102	Start_stop	Start / stop command	INT	1234 / 4321	1234 : Start, 4321 : Stop