

COMMUNICATION INTERFACE - BACNET

DATA SHEET

File No: 94.872
 Date: JUNE 01, 2015
 Supersedes: NEW
 Date: NEW

BUILDING AUTOMATION SYSTEM - BACNET/IP, BACNET ETHERNET, OR BACNET MSTP IVS BOOSTER COMMUNICATION INTERFACE (DEVICE ID: 77000)

SIGNAL TYPE	INSTANCE	NAME	DESCRIPTION	OFF STATE (0)	ON STATE (1)	TYPE
DO	1	D001	Booster Alarm	Ok	Alarm	Toggle
DO	2	D002	Pump 1 Alarm	Ok	Alarm	Toggle
DO	3	D003	Pump 2 Alarm	Ok	Alarm	Toggle
DO	4	D004	Pump 3 Alarm	Ok	Alarm	Toggle
DO	5	D005	Pump 4 Alarm	Ok	Alarm	Toggle
DO	6	D006	Pump 5 Alarm	Ok	Alarm	Toggle
DO	7	D007	Low Suction Pressure Alarm	Ok	Alarm	Toggle
DO	8	D008	High Suction Pressure Alarm	Ok	Alarm	Toggle
DO	9	D009	Low Discharge Pressure Alarm	Ok	Alarm	Toggle
DO	10	D010	High Discharge Pressure Alarm	Ok	Alarm	Toggle
DO	11	D011	Factory High System Pressure Alarm	Ok	Alarm	Toggle
DO	12	D012	Pressure Alarm	Ok	Alarm	Toggle
DO	13	D013	Suction Pressure Sensor Alarm	Ok	Alarm	Toggle
DO	14	D014	Discharge Pressure Sensor Alarm	Ok	Alarm	Toggle
DO	15	D015	PLC Ok	Alarm	Ok	Toggle
DO	16	D016	Aquastat_Alm	Ok	Alarm	Toggle
DO	17	D017	Booster Set in Emergency Power Mode	Off	On	Toggle
DO	18	D018	Booster On	Off	On	Toggle
DO	19	D019	Pump 1 Running	Off	On	Toggle
DO	20	D020	Pump 2 Running	Off	On	Toggle
DO	21	D021	Pump 3 Running	Off	On	Toggle
DO	22	D022	Pump 4 Running	Off	On	Toggle
DO	23	D023	Pump 5 Running	Off	On	Toggle
DO	24	D024	Booster Set is in No Flow Shutdown	Off	On	Toggle
DO	25	D025	Booster Set is in Soft Fill Mode	Off	On	Toggle
DO	26	D026	Remote Pressure Sensor Alarm	Ok	Alarm	Toggle
DO	27	D027	Eoc Stage On	Off	On	Toggle
DO	28	D028	Alarm Horn	Ok	Alarm	Toggle
DO	29	D029	Drv1 Fault	Ok	Alarm	Toggle
DO	30	D030	Drv2 Fault	Ok	Alarm	Toggle
DO	31	D031	Drv3 Fault	Ok	Alarm	Toggle
DO	32	D032	Drv4 Fault	Ok	Alarm	Toggle
DO	33	D033	Drv5 Fault	Ok	Alarm	Toggle

MODBUS ADDRESS	SIGNAL TYPE	READ/ WRITE	DESCRIPTION	OFF STATE (0)	ON STATE (1)	TYPE
DO	34	D034	VFD 1 Communication Alarm	Ok	Alarm	Toggle
DO	35	D035	Pump 1 Run Feedback Alarm	Ok	Alarm	Toggle
DO	36	D036	VFD 2 Communication Alarm	Ok	Alarm	Toggle
DO	37	D037	Pump 2 Run Feedback Alarm	Ok	Alarm	Toggle
DO	38	D038	VFD 3 Communication Alarm	Ok	Alarm	Toggle
DO	39	D039	Pump 3 Run Feedback Alarm	Ok	Alarm	Toggle
DO	40	D040	VFD 4 Communication Alarm	Ok	Alarm	Toggle
DO	41	D041	Pump 4 Run Feedback Alarm	Ok	Alarm	Toggle
DO	42	D042	VFD 5 Communication Alarm	Ok	Alarm	Toggle
DO	43	D043	Pump 5 Run Feedback Alarm	Ok	Alarm	Toggle
DO	44	D044	P1 Airlock Alarm	Ok	Alarm	Toggle
DO	45	D045	P2 Airlock Alarm	Ok	Alarm	Toggle
DO	46	D046	P3 Airlock Alarm	Ok	Alarm	Toggle
DO	47	D047	P4 Airlock Alarm	Ok	Alarm	Toggle
DO	48	D048	P5 Airlock Alarm	Ok	Alarm	Toggle
DO	49	D049	Low Level Alarm	Ok	Alarm	Toggle
DO	50	D050	Tank 1 Low Level	Off	On	Toggle
DO	51	D051	Tank 2 Low Level	Off	On	Toggle
DI	101	D101	Set Pump 1 in Auto mode		Auto	Momentary
DI	102	D102	Set Pump 1 in Hand mode		Hand	Momentary
DI	103	D103	Set Pump 1 in Off mode		Off	Momentary
DI	104	D104	Set Pump 2 in Auto mode		Auto	Momentary
DI	105	D105	Set Pump 2 in Hand mode		Hand	Momentary
DI	106	D106	Set Pump 2 in Off mode		Off	Momentary
DI	107	D107	Set Pump 3 in Auto mode		Auto	Momentary
DI	108	D108	Set Pump 3 in Hand mode		Hand	Momentary
DI	109	D109	Set Pump 3 in Off mode		Off	Momentary
DI	110	D110	Set Pump 4 in Auto mode		Auto	Momentary
DI	111	D111	Set Pump 4 in Hand mode		Hand	Momentary
DI	112	D112	Set Pump 4 in Off mode		Off	Momentary
DI	113	D113	Set Pump 5 in Auto mode		Auto	Momentary
DI	114	D114	Set Pump 5 in Hand mode		Hand	Momentary
DI	115	D115	Set Pump 5 in Off mode		Off	Momentary
DI	116	D116	BAS Remote Start	Stop	Start	Toggle
DI	117	D117	Alarm Reset		Reset	Momentary

**BUILDING AUTOMATION SYSTEM - BACNET/IP, BACNET ETHERNET, OR BACNET MSTP
IVS BOOSTER COMMUNICATION INTERFACE (DEVICE ID: 77000)**

SIGNAL TYPE	INSTANCE	NAME	DESCRIPTION	RANGE	REPRESENT	UNITS
AO	1	A001	Discharge Pressure	0 to 32000	0.0 to 3200.0	psi,ft,kPa,m,bar
AO	2	A002	Suction Pressure	0 to 32000	0.0 to 3200.0	
AO	3	A003	Boost Pressure	0 to 32000	0.0 to 3200.0	
AO	4	A004	Active Setpoint	0 to 32000	0.0 to 3200.0	
AO	5	A005	Auto Speed	0 to 1000	0.0 to 100.0	%
AO	6	A006	Remote Pressure	0 to 32000	0.0 to 3200.0	psi,ft,kPa,m,bar
AO	7	A007	Pump 1 Speed	0 to 1000	0.0 to 100.0	%
AO	8	A008	Pump 1 Power	0 to 1000	0.0 to 100.0	kW
AO	9	A009	Pump 2 Speed	0 to 1000	0.0 to 100.0	%
AO	10	A010	Pump 2 Power	0 to 1000	0.0 to 100.0	kW
AO	11	A011	Pump 3 Speed	0 to 1000	0.0 to 100.0	%
AO	12	A012	Pump 3 Power	0 to 1000	0.0 to 100.0	kW
AO	13	A013	Pump 4 Speed	0 to 1000	0.0 to 100.0	%
AO	14	A014	Pump 4 Power	0 to 1000	0.0 to 100.0	kW
AO	15	A015	Pump 5 Speed	0 to 1000	0.0 to 100.0	%
AO	16	A016	Pump 5 Power	0 to 1000	0.0 to 100.0	kW
AI	54	A054	Alternate 1 System Setpoint	0 to 32000	0.0 to 3200.0	psi,ft,kPa,m,bar
AI	55	A055	Alternate 2 System Setpoint	0 to 32000	0.0 to 3200.0	psi,ft,kPa,m,bar
AI	56	A056	Alternate 3 System Setpoint	0 to 32000	0.0 to 3200.0	psi,ft,kPa,m,bar
AI	57	A057	Alternate 4 System Setpoint	0 to 32000	0.0 to 3200.0	psi,ft,kPa,m,bar
AI	58	A058	Alternate 5 System Setpoint	0 to 32000	0.0 to 3200.0	psi,ft,kPa,m,bar
AI	59	A059	Alternate 6 System Setpoint	0 to 32000	0.0 to 3200.0	psi,ft,kPa,m,bar
AI	60	A060	Pump 1 Hand Speed	0 to 1000	0.0 to 100.0	%
AI	61	A061	Pump 2 Hand Speed	0 to 1000	0.0 to 100.0	
AI	62	A062	Pump 3 Hand Speed	0 to 1000	0.0 to 100.0	
AI	63	A063	Pump 4 Hand Speed	0 to 1000	0.0 to 100.0	
AI	64	A064	Pump 5 Hand Speed	0 to 1000	0.0 to 100.0	
AI	65	A065	Local Pressure Setpoint	0 to 32000	0.0 to 3200.0	psi,ft,kPa,m,bar
AI	66	A066	Remote Pressure Setpoint	0 to 32000	0.0 to 3200.0	psi,ft,kPa,m,bar

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SIGNAL TYPE	INSTANCE	NAME	DESCRIPTION	RANGE	REPRESENT	UNITS
AO	1001	I1001	Pump 1 Mode	0 to 3	0 to 3	*See Note 1
AO	1002	I1002	Pump 1 Operating Run Hours	0 to 999	0 to 999	Hrs
AO	1003	I1003	Pump 1 Operating Run KHours	0 to 32000	0 to 32000	Khrs
AO	1004	I1004	Pump 2 Mode	0 to 3	0 to 3	*See Note 1
AO	1005	I1005	Pump 2 Operating Run Hours	0 to 999	0 to 999	Hrs
AO	1006	I1006	Pump 2 Operating Run KHours	0 to 32000	0 to 32000	Khrs
AO	1007	I1007	Pump 3 Mode	0 to 3	0 to 3	*See Note 1
AO	1008	I1008	Pump 3 Operating Run Hours	0 to 999	0 to 999	Hrs
AO	1009	I1009	Pump 3 Operating Run KHours	0 to 32000	0 to 32000	Khrs
AO	1010	I1010	Pump 4 Mode	0 to 3	0 to 3	*See Note 1
AO	1011	I1011	Pump 4 Operating Run Hours	0 to 999	0 to 999	Hrs
AO	1012	I1012	Pump 4 Operating Run KHours	0 to 32000	0 to 32000	Khrs
AO	1013	I1013	Pump 5 Mode	0 to 3	0 to 3	*See Note 1
AO	1014	I1014	Pump 5 Operating Run Hours	0 to 999	0 to 999	Hrs
AO	1015	I1015	Pump 5 Operating Run KHours	0 to 32000	0 to 32000	Khrs

NOTE 1: 0 = N/A 1 = Hand 2 = Off 3 = Auto

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