

COMMUNICATION INTERFACE - MODBUS

DATA SHEET

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BUILDING AUTOMATION SYSTEM

IVS BOOSTER MODBUS RTU - COMMUNICATION INTERFACE

MODBUS ADDRESS	SIGNAL TYPE	READ/ WRITE	DESCRIPTION	OFF STATE (0)	ON STATE (1)	TYPE
10002	Digital	R	Booster Alarm	Ok	Alarm	Toggle
10003	Digital	R	Pump 1 Alarm	Ok	Alarm	Toggle
10004	Digital	R	Pump 2 Alarm	Ok	Alarm	Toggle
10005	Digital	R	Pump 3 Alarm	Ok	Alarm	Toggle
10006	Digital	R	Pump 4 Alarm	Ok	Alarm	Toggle
10007	Digital	R	Pump 5 Alarm	Ok	Alarm	Toggle
10008	Digital	R	Low Suction Pressure Alarm	Ok	Alarm	Toggle
10009	Digital	R	High Suction Pressure Alarm	Ok	Alarm	Toggle
10010	Digital	R	Low Discharge Pressure Alarm	Ok	Alarm	Toggle
10011	Digital	R	High Discharge Pressure Alarm	Ok	Alarm	Toggle
10012	Digital	R	Factory High System Pressure Alarm	Ok	Alarm	Toggle
10013	Digital	R	Pressure Alarm	Ok	Alarm	Toggle
10014	Digital	R	Suction Pressure Sensor Alarm	Ok	Alarm	Toggle
10015	Digital	R	Discharge Pressure Sensor Alarm	Ok	Alarm	Toggle
10016	Digital	R	PLC Ok	Alarm	Ok	Toggle
10017	Digital	R	Aquastat_Alm	Ok	Alarm	Toggle
10018	Digital	R	Booster Set in Emergency Power Mode	Off	On	Toggle
10019	Digital	R	Booster On	Off	On	Toggle
10020	Digital	R	Pump 1 Running	Off	On	Toggle
10021	Digital	R	Pump 2 Running	Off	On	Toggle
10022	Digital	R	Pump 3 Running	Off	On	Toggle
10023	Digital	R	Pump 4 Running	Off	On	Toggle
10024	Digital	R	Pump 5 Running	Off	On	Toggle
10025	Digital	R	Booster Set is in No Flow Shutdown	Off	On	Toggle
10026	Digital	R	Booster Set is in Soft Fill Mode	Off	On	Toggle
10027	Digital	R	Remote Pressure Sensor Alarm	Ok	Alarm	Toggle
10028	Digital	R	Eoc Stage On	Off	On	Toggle
10029	Digital	R	Alarm Horn	Ok	Alarm	Toggle
10030	Digital	R	Drv1 Fault	Ok	Alarm	Toggle
10031	Digital	R	Drv2 Fault	Ok	Alarm	Toggle
10032	Digital	R	Drv3 Fault	Ok	Alarm	Toggle
10033	Digital	R	Drv4 Fault	Ok	Alarm	Toggle
10034	Digital	R	Drv5 Fault	Ok	Alarm	Toggle

MODBUS ADDRESS	SIGNAL TYPE	READ/ WRITE	DESCRIPTION	OFF STATE (0)	ON STATE (1)	TYPE
10035	Digital	R	VFD 1 Communication Alarm	Ok	Alarm	Toggle
10036	Digital	R	Pump 1 Run Feedback Alarm	Ok	Alarm	Toggle
10037	Digital	R	VFD 2 Communication Alarm	Ok	Alarm	Toggle
10038	Digital	R	Pump 2 Run Feedback Alarm	Ok	Alarm	Toggle
10039	Digital	R	VFD 3 Communication Alarm	Ok	Alarm	Toggle
10040	Digital	R	Pump 3 Run Feedback Alarm	Ok	Alarm	Toggle
10041	Digital	R	VFD 4 Communication Alarm	Ok	Alarm	Toggle
10042	Digital	R	Pump 4 Run Feedback Alarm	Ok	Alarm	Toggle
10043	Digital	R	VFD 5 Communication Alarm	Ok	Alarm	Toggle
10044	Digital	R	Pump 5 Run Feedback Alarm	Ok	Alarm	Toggle
10045	Digital	R	P1 Airlock Alarm	Ok	Alarm	Toggle
10046	Digital	R	P2 Airlock Alarm	Ok	Alarm	Toggle
10047	Digital	R	P3 Airlock Alarm	Ok	Alarm	Toggle
10048	Digital	R	P4 Airlock Alarm	Ok	Alarm	Toggle
10049	Digital	R	P5 Airlock Alarm	Ok	Alarm	Toggle
10050	Digital	R	Low Level Alarm	Ok	Alarm	Toggle
10051	Digital	R	Tank 1 Low Level	Off	On	Toggle
10052	Digital	R	Tank 2 Low Level	Off	On	Toggle
00102	Digital	R/W	Set Pump 1 in Auto mode		Auto	Momentary
00103	Digital	R/W	Set Pump 1 in Hand mode		Hand	Momentary
00104	Digital	R/W	Set Pump 1 in Off mode		Off	Momentary
00105	Digital	R/W	Set Pump 2 in Auto mode		Auto	Momentary
00106	Digital	R/W	Set Pump 2 in Hand mode		Hand	Momentary
00107	Digital	R/W	Set Pump 2 in Off mode		Off	Momentary
00108	Digital	R/W	Set Pump 3 in Auto mode		Auto	Momentary
00109	Digital	R/W	Set Pump 3 in Hand mode		Hand	Momentary
00110	Digital	R/W	Set Pump 3 in Off mode		Off	Momentary
00111	Digital	R/W	Set Pump 4 in Auto mode		Auto	Momentary
00112	Digital	R/W	Set Pump 4 in Hand mode		Hand	Momentary
00113	Digital	R/W	Set Pump 4 in Off mode		Off	Momentary
00114	Digital	R/W	Set Pump 5 in Auto mode		Auto	Momentary
00115	Digital	R/W	Set Pump 5 in Hand mode		Hand	Momentary
00116	Digital	R/W	Set Pump 5 in Off mode		Off	Momentary
00117	Digital	R/W	BAS Remote Start	Stop	Start	Toggle
00118	Digital	R/W	Alarm Reset		Reset	Momentary

BUILDING AUTOMATION SYSTEM
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MODBUS ADDRESS	SIGNAL TYPE	READ/ WRITE	DESCRIPTION	RANGE	REPRESENT	UNITS
30002	Analog	R	Discharge Pressure	0 to 32000	0.0 to 3200.0	psi,ft,kPa,m,bar
30003	Analog	R	Suction Pressure	0 to 32000	0.0 to 3200.0	
30004	Analog	R	Boost Pressure	0 to 32000	0.0 to 3200.0	
30005	Analog	R	Active Setpoint	0 to 32000	0.0 to 3200.0	
30006	Analog	R	Auto Speed	0 to 1000	0.0 to 100.0	%
30007	Analog	R	Remote Pressure	0 to 32000	0.0 to 3200.0	psi,ft,kPa,m,bar
30008	Analog	R	Pump 1 Speed	0 to 1000	0.0 to 100.0	%
30009	Analog	R	Pump 1 Power	0 to 1000	0.0 to 100.0	kW
30010	Analog	R	Pump 2 Speed	0 to 1000	0.0 to 100.0	%
30011	Analog	R	Pump 2 Power	0 to 1000	0.0 to 100.0	kW
30012	Analog	R	Pump 3 Speed	0 to 1000	0.0 to 100.0	%
30013	Analog	R	Pump 3 Power	0 to 1000	0.0 to 100.0	kW
30014	Analog	R	Pump 4 Speed	0 to 1000	0.0 to 100.0	%
30015	Analog	R	Pump 4 Power	0 to 1000	0.0 to 100.0	kW
30016	Analog	R	Pump 5 Speed	0 to 1000	0.0 to 100.0	%
30017	Analog	R	Pump 5 Power	0 to 1000	0.0 to 100.0	kW
40055	Analog	R/W	Alternate 1 System Setpoint	0 to 32000	0.0 to 3200.0	psi,ft,kPa,m,bar
40056	Analog	R/W	Alternate 2 System Setpoint	0 to 32000	0.0 to 3200.0	psi,ft,kPa,m,bar
40057	Analog	R/W	Alternate 3 System Setpoint	0 to 32000	0.0 to 3200.0	psi,ft,kPa,m,bar
40058	Analog	R/W	Alternate 4 System Setpoint	0 to 32000	0.0 to 3200.0	psi,ft,kPa,m,bar
40059	Analog	R/W	Alternate 5 System Setpoint	0 to 32000	0.0 to 3200.0	psi,ft,kPa,m,bar
40060	Analog	R/W	Alternate 6 System Setpoint	0 to 32000	0.0 to 3200.0	psi,ft,kPa,m,bar
40061	Analog	R/W	Pump 1 Hand Speed	0 to 1000	0.0 to 100.0	%
40062	Analog	R/W	Pump 2 Hand Speed	0 to 1000	0.0 to 100.0	
40063	Analog	R/W	Pump 3 Hand Speed	0 to 1000	0.0 to 100.0	
40064	Analog	R/W	Pump 4 Hand Speed	0 to 1000	0.0 to 100.0	
40065	Analog	R/W	Pump 5 Hand Speed	0 to 1000	0.0 to 100.0	
40066	Analog	R/W	Local Pressure Setpoint	0 to 32000	0.0 to 3200.0	psi,ft,kPa,m,bar
40067	Analog	R/W	Remote Pressure Setpoint	0 to 32000	0.0 to 3200.0	psi,ft,kPa,m,bar

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MODBUS ADDRESS	SIGNAL TYPE	READ/ WRITE	DESCRIPTION	RANGE	REPRESENT	UNITS
30130	Analog	R	Pump 1 Mode	0 to 3	0 to 3	*See Note 1
30131	Analog	R	Pump 1 Operating Run Hours	0 to 999	0 to 999	Hrs
30132	Analog	R	Pump 1 Operating Run KHours	0 to 32000	0 to 32000	Khrs
30133	Analog	R	Pump 2 Mode	0 to 3	0 to 3	*See Note 1
30134	Analog	R	Pump 2 Operating Run Hours	0 to 999	0 to 999	Hrs
30135	Analog	R	Pump 2 Operating Run KHours	0 to 32000	0 to 32000	Khrs
30136	Analog	R	Pump 3 Mode	0 to 3	0 to 3	*See Note 1
30137	Analog	R	Pump 3 Operating Run Hours	0 to 999	0 to 999	Hrs
30138	Analog	R	Pump 3 Operating Run KHours	0 to 32000	0 to 32000	Khrs
30139	Analog	R	Pump 4 Mode	0 to 3	0 to 3	*See Note 1
30140	Analog	R	Pump 4 Operating Run Hours	0 to 999	0 to 999	Hrs
30141	Analog	R	Pump 4 Operating Run KHours	0 to 32000	0 to 32000	Khrs
30142	Analog	R	Pump 5 Mode	0 to 3	0 to 3	*See Note 1
30143	Analog	R	Pump 5 Operating Run Hours	0 to 999	0 to 999	Hrs
30144	Analog	R	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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