BACnet Protocol Implementation Conformance Statement

Date: September 20, 2011
Vendor Name: ITT Bell & Gossett
Vendor ID: 84
Product Name: Technologic Constant Speed Pump Controller

Product Description:
Technologic Constant Speed Pump Controller is a pumping system designed for HVAC and industrial process control. It operates as either a stand-alone controller or as part of a building-wide integrated system. The BACnet communication interface will provide communication between the Technologic Constant Speed Pump Controller and the BACnet system on EIA-485 media

BACnet Standardized Device Profile (Annex L): BACnet Application Specific Controller

BACnet Standard Objects Supported:

Analog Input
Dynamically Creatable: No
Dynamically Deletable: No
Optional Properties Supported: None
Writeable Properties: Present Value
Out-of-Service
Proprietary Properties: None
Property Range Restrictions: None

Analog Output
Dynamically Creatable: No
Dynamically Deletable: No
Optional Properties Supported: None
Writeable Properties: Present Value
Out-of-Service
Proprietary Properties: None
Property Range Restrictions: None

Binary Input
Dynamically Creatable: No
Dynamically Deletable: No
Optional Properties Supported: None
Writeable Properties: Present Value
Proprietary Properties: None
Property Range Restrictions: None

Binary Output
Dynamically Creatable: No
Dynamically Deletable: No
Optional Properties Supported: None
Writeable Properties: Present Value
Proprietary Properties: None
Property Range Restrictions: None

Device
Dynamically Creatable: No
Dynamically Deletable: No
Optional Properties Supported: Local_Time
Local_Date
Writeable Properties:
Proprietary Properties: None
Property Range Restrictions: None

BACnet Services Supported

Readproperty – execute
Writeproperty – execute
DeviceCommunicationControl – execute
timeSynchronization – execute
Who-Has – initiate
Who-Is - initiate

BACnet Interoperability Blocks Supported:
DS-RP-B, DS-WP-B, DM-DOM-B, DM-DDB-B, DM-DCC-B

Segmentation Capability: Not Supported

BACnet Object List

Analog Inputs

Number	Object Name	Range/Value	Units
1	Pump1 State	0=Disabled, 1=Run, 2=Ready, 3=Failed	no-units
2	Pump2 State	0=Disabled, 1=Run, 2=Ready, 3=Failed	no-units
3	Pump3 State	0=Disabled, 1=Run, 2=Ready, 3=Failed	no-units
4	Pump4 State	0=Disabled, 1=Run, 2=Ready, 3=Failed	no-units
5	Pump5 State	0=Disabled, 1=Run, 2=Ready, 3=Failed	no-units
6	Pump6 State	0=Disabled, 1=Run, 2=Ready, 3=Failed	no-units
7	Suc/Ret Press	0 to Span (in Technologic User Setup Menu)	PSI
8	Sys/Sup Press	0 to Span (in Technologic User Setup Menu)	PSI
9	Flow	0 to Span (in Technologic User Setup Menu)	GPM
10	Temperature	0 to Span (in Technologic User Setup Menu)	°F
11	Pressure	0 to Span (in Technologic User Setup Menu)	PSI
12	Diff Temp	0 to Span (in Technologic User Setup Menu)	°F
13	Suc/Ret Temp	Actual °F	°F
14	Sys/Sup Temp	Actual °F	°F
15	Amps	Actual Amps	no-units
16	Horsepower	Actual Horsepower	no-units

Analog Outputs

Number	Object Name	Range/Value	Units
1	Suc/Ret Press Cmd	0 to 65535	PSI
2	Sys/Sup Press Cmd	0 to 65535	PSI
3	Flow Command	0 to 65535	PSI
4	Temp Command	0 to 65535	PSI
5	Pressure Command	0 to 65535	PSI
6	Diff Temp Command	0 to 65535	PSI

Binary Inputs

Number	Object Name	Range/Value
1	Sys Strt/Stp Stat	1 = Start 0 = Stop
2	Sys Auto/Man Stat	1 = Auto 0 = Manual
3	General Alarm	1 = Failure 0 = O.K.
4	Reset Required	1 = Reset is Required 0 = O.K.
5	AI 1 Fail	1 = Failure 0 = O.K.
6	AI 2 Fail	1 = Failure 0 = O.K.
7	AI 3 Fail	1 = Failure 0 = O.K.

Binary Inputs Continued

8	AI 4 Fail	1 = Failure	0 = O.K.
9	RTD 1 Fail	1 = Failure	0 = O.K.
10	RTD 2 Fail	1 = Failure	0 = O.K.
11	Battery Fail	1 = Failure	0 = O.K.
12	Low Suction AI	1 = Failure	0 = O.K.
13	Low Suction Sw	1 = Failure	0 = O.K.
14	High Suction	1 = Failure	0 = O.K.
15	Low System	1 = Failure	0 = O.K.
16	High System	1 = Failure	0 = O.K.
17	NFSD DT	1 = Failure	0 = O.K.
18	NFSD FS	1 = Failure	0 = O.K.
19	Low Level	1 = Failure	0 = O.K.
20	High Temp	1 = Failure	0 = O.K.
21	Pump1 DP Fail	1 = Failure	0 = O.K.
22	Pump2 DP Fail	1 = Failure	0 = O.K.
23	Pump3 DP Fail	1 = Failure	0 = O.K.
24	Pump4 DP Fail	1 = Failure	0 = O.K.
25	Pump5 DP Fail	1 = Failure	0 = O.K.
26	Pump6 DP Fail	1 = Failure	0 = O.K.
27	Pump1 OL Fail	1 = Failure	0 = O.K.
28	Pump2 OL Fail	1 = Failure	0 = O.K.
29	Pump3 OL Fail	1 = Failure	0 = O.K.
30	Pump4 OL Fail	1 = Failure	0 = O.K.
31	Pump5 OL Fail	1 = Failure	0 = O.K.
32	Pump6 OL Fail	1 = Failure	0 = O.K.
33	CAN Fail	1 = Failure	0 = O.K.
34	Voltage Tol	1 = Failure	0 = O.K.
35	Voltage Fail	1 = Failure	0 = O.K.

Binary Outputs

Number	Object Name	Range/Value
1	System Start/Stop	1 = Start 0 = Stop
2	System Reset	Positive Edge = Reset/Silence
3	Pump Alternation	Positive Edge = Alternate

Data Link Layer Options:
MS/TP Master (Clause 9)
Baud Rates, 9600, 19200, 38400

Device Address Binding:
N/A

Character Sets Supported: ANSI X3