

**PROTOCOL IMPLEMENTATION
CONFORMANCE
STATEMENT (PICS)**



NB-V3TD

Vendor Name: American Auto-Matrix
Product Name: NB-V3Td
Product Model Number: NB-V3Td
Firmware Revision: 6.03
BACnet Protocol Revision: 4

Product Description:

NB-V3Td, used in conjunction with the NB-V3Tb, is a smart sensor device, capable of providing both zone sensing and control for single or multiple zones, based on installation and engineering capability. The NB-V3Td includes a feedback actuator for accurate monitoring and positioning.

BACNET STANDARDIZED DEVICE PROFILE:

- BACnet Operator Workstation (B-OWS)
- BACnet Building Controller (B-BC)
- BACnet Advanced Application Controller (B-AAC)
- BACnet Application Specific Controller (B-ASC)
- BACnet Smart Sensor (B-SS)
- BACnet Smart Actuator (B-SA)
- BACnet Other (B-OTHER)

BACNET INTEROPERABILITY BUILDING BLOCKS SUPPORTED:

DS-RP-B	DM-TS-A	DM-DOB-B	DM-RD-B
DS-WP-B	DM-TS-B	DM-DCC-B	DM-PT-A
DS-RPM-B	SCHED-WS-I-B	DM-DDB-B	DM-PT-B

SEGMENTATION CAPABILITY:

Able to transmit segmented messages yes no Window Size:

Able to receive segmented messages yes no Window Size:

STANDARD OBJECT TYPES SUPPORTED

Dynamically Creatable Objects

None

Dynamically Deletable Objects

None

Properties

Bold indicates writable properties

Italics indicates optional properties

Device

object-identifier

object-name

object-type

system-status

vendor-name

vendor-id

model-name

firmware-revision

application-software-revision

protocol-version

protocol-revision

protocol-services-supported

protocol-object-types-supported

object-list

max-apdu-length

segmentation-supported

local-time

local-date

apdu-timeout

number-of-apdu-retries

max-master

max-info-frames

time-synchronization-

recipients

device-address-binding

database-revision

profile-name

Analog Input

object-identifier

object-name

object-type

present-value

status-flags

event-state

out-of-service

units

min-pres-value

max-pres-value

reliability

Analog Value

object-identifier
object-name
object-type
present-value
status-flags
event-state
out-of-service
units

Schedule

object-identifier
object-name
object-type
present-value
effective-period
weekly-schedule
schedule-default
list-of-object-property-references
priority-for-writing
status-flags
reliability
out-of-service

NON-STANDARD PROPERTY DECLARATION

This product contains non-standard properties in the following standard objects listed below.

ANALOG INPUT, INSTANCE 0

Identifier	Meaning	Datatype
16754	SSB Mode	Unsigned
16757	Application Profile	Unsigned
16770	Calculated Cooling Setpoint	Real
16775	Calculated Heating Setpoint	Real
16796	Thermostat Display Format	Unsigned
16798	Demand Load	Unsigned
16799	Demand Mode	Unsigned
16803	Thermostat Display Mode	Unsigned
16805	Thermostat Display Format	Unsigned
16808	Extended Occupancy Time	Unsigned
16816	Extended Occupancy Time Remaining	Unsigned
16837	STAT0 GID	Unsigned
16838	STAT1 GID	Unsigned
16839	STAT2 GID	Unsigned
16840	STAT3 GID	Unsigned
16919	Temp Offset	Real
16940	Balance PIN	Unsigned
16945	Primary STAT	Unsigned
16947	Installer PIN	Unsigned
16951	Service PIN	Unsigned
16952	User PIN	Unsigned
17091	Reversing Delay	Real
16969	Reading Mode	Unsigned
16983	Setpoint Display	Unsigned
16984	Override Enable/Disable	Unsigned
16997	Setup/Setback	Real
17002	STAT0 Reading	Real
17003	STAT1 Reading	Real
17004	STAT2 Reading	Real

ANALOG INPUT, INSTANCE 0

Identifier	Meaning	Datatype
17005	STAT3 Reading	Real
17011	Offset Increment	Real
17013	User Adjust Position	Integer
17014	User Adjust Remaining	Unsigned
17015	Setpoint Offset	Real
17016	User Adjust Duration	Unsigned
17087	Zone Midpoint	Real
16973	Reset Accumulations	Boolean
17007	Total Energy	Unsigned
17008	Total Used	Unsigned

ANALOG INPUT, INSTANCE 1

Identifier	Meaning	Datatype
16804	Datatype	Unsigned
16878	Input Filtering	Unsigned
16881	Input Optimization	Boolean
16919	Input Offset	Real
16996	Sensor Type	Unsigned
16997	Setup/Setback	Real

ANALOG INPUT, INSTANCE 8

Identifier	Meaning	Datatype
16794	Duct Delta Temperature	Real
16876	Input Select	Unsigned
16768	Temp Adjustment	Real
16769	Supply Mode	Unsigned

SCHEDULE, INSTANCE 1

Identifier	Meaning	Datatype
16853	Host Enable	Boolean
16860	Host Schedule	Unsigned
16882	Inactive Schedule State	Unsigned
17081	Receive Schedule	Boolean

DEVICE OBJECT

Identifier	Meaning	Datatype
16758	Backup Control	Boolean
16770	Clock Fail Count	Unsigned
16779	Manufacturer Code	Unsigned
16781	Baud Rate	Unsigned
16874	Controller Type	Unsigned
16795	Default Enable	Unsigned
16813	English/Metric Mode	Boolean
16820	Interlock 1 Status	Boolean
16821	Interlock 2 Status	Boolean
16822	Fan Interlock	Boolean
16834	Firmware Type	Unsigned
16868	Interlock 1 Selection	Unsigned
16869	Interlock 2 Selection	Unsigned
16870	Fan Interlock Selection	Boolean
16876	Default Count	Unsigned
16877	MAC Address	Unsigned
16882	Interlock Status	Bitstring
16902	Master/Slave Toggle	Boolean
16917	Opcode Count	Unsigned
16925	Kernel Version	Real
16942	Power on Delay	Unsigned

DEVICE OBJECT

Identifier	Meaning	Datatype
16949	Actual Schedule Status	Unsigned / Enum - based on Schedule configuration
16951	Power-up Stat	Unsigned
16963	Reset Count	Unsigned
16967	Fan Interlock Reset	Boolean
16972	Reset Controller	Boolean
16991	Serial Number	Unsigned
16994	Software Time Stamp	Unsigned
17043	Software Version	Real
17050	Watchdog Cop	Unsigned
17084	Zone Number	Unsigned
17085	Count of High Pulses	Unsigned

DATA LINK LAYER OPTIONS:

- BACnet IP, (Annex J)
- BACnet IP, (Annex J), Foreign Device
- ISO 8802-3, Ethernet (Clause 7)
- ANSI/ATA 878.1, 2.5 Mb. ARCNET (Clause 8)
- ANSI/ATA 878.1, RS-485 ARCNET (Clause 8), baud rate(s):
- MS/TP master (Clause 9), baud rate(s): 9.6k, 19.2k, 38.4k, 76.8k
- MS/TP slave (Clause 9), baud rate(s):
- Point-To-Point, EIA 232 (Clause 10), baud rate(s):
- Point-To-Point, modem, (Clause 10), baud rate(s):
- LonTalk, (Clause 11), medium:
- Other:

DEVICE ADDRESS BINDING:

Is static device binding supported? Yes No

(This is currently necessary for two-way communication with MS/TP slaves and certain other devices.)

NETWORKING OPTIONS:

- Router, Clause 6 - IP, MS/TP, Ethernet
- Annex H, BACnet Tunneling Router over IP
- BACnet/IP Broadcast Management Device (BBMD)
Does the BBMD support registrations by Foreign Devices? Yes No

CHARACTER SETS SUPPORTED

Indicating support for multiple character sets does not imply that they can all be supported simultaneously.

- | | |
|---|--|
| <input checked="" type="checkbox"/> ANSI X3.4 | <input type="checkbox"/> ISO 10646 (UCS-4) |
| <input type="checkbox"/> IBM™/Microsoft™ DBCS | <input type="checkbox"/> ISO 10646 (UCS-2) |
| <input type="checkbox"/> JIS C 6226 | <input type="checkbox"/> ISO 8859-1 |

GATEWAY

This product does not support gateway functionality for any types of non-BACnet equipment/network(s).