



Critical Environment Technologies

Unit 145, 7391 Vantage Way Delta, BC, Canada V4G 1M3

phone 604-940-8741 fax 604-940-8745

www.critical-environment.com

BACnet Transmitter Specifications:

- Communication Protocol:
ANSI/ASHRAE Standard 135 BACnet communication protocol: 135-2004
- MAC Addressing:
On-board dip-switch is used to set the MAC address. The valid address is from 1 to 127.
- LED:

Indication	Description
ON	Powered without communication activity
Quick Flashing (less than 50ms interval)	Active receive/transmit data over MS/TP
OFF 1/2 second then ON	Jumper changing
Slow Flashing (one second interval):	Configuration mode(J1 and J2 set to PC), Or failed on communications to AST board.

- Baud Rate:
9600, 19200, 38400, 76800bps on-board jumper selectable.
- Supported Objects

Object	Description
Device	Analog Transmitter (AST)
Analog Input	Analog Input for gas sensor of analog transmitter
Notification Class	Notification Class for alarm/event notification

- Supported Services

Service	Description	Initiate	Execute
Who-Is		No	Yes
I-Am	Inform node existence	Yes	No
Who-Has		No	Yes
ReadProperty	Read property of an abject	No	Yes
ReadPropertyMultiple	Read a series of properties	No	Yes
UnconfirmedEventNotification	Notify recipients in case of alarm	Yes	No
WriteProperty		No	Yes
GetAlarmSummary		No	Yes



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- Property List of Objects

Device:

Property	Access	Default Value
Object Identifier	Read, Write	100
Object Name	Read	AST-F1
Object Type	Read	Device
System Status	Read	NA
Vendor Name	Read	CET
Vendor Identifier	Read	200
Model Name	Read, Write	AST-F1
Firmware Revision	Read	1.0
Application Software Version	Read	1.0
Protocol Version	Read	1
Protocol Revision	Read	5
Protocol Service Supported	Read	Refer to Supported Services
Protocol Object Types Supported	Read	Refer to Supported Objects
Object List	Read	Refer to Supported Objects
Maximum APDU Length Accepted	Read	200
Segmentation Supported	Read	No
APDU Timeout	Read, Write	3000
Number of APDU Retries	Read, Write	5
Maximum Master	Read, Write	125
Maximum Information Frames	Read	1
Database Revision	Read	1.0
Description	Read, Write	ANALOG TRSMTR
Location	Read, Write	CANADA



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Analog Input:

Property	Access	Default Value
Object Identifier	Read, Write	0
Object Name	Read	Retrieved from AST board
Object Type	Read	Analog Input
Present Value	Read	NA
Status Flag	Read	NA
Event State	Read	NA
Out of Service	Read	False
Unit	Read	Retrieved from AST board
Description	Read, Write	ANALOG INPUT
Minimum Present Value	Read, Write	Retrieved from AST board
Maximum Present Value	Read, Write	Retrieved from AST board
Notification Class	Read	1
High Limit	Read	Retrieved from AST board
Low Limit	Read	Retrieved from AST board
Limit Enable	Read	Enabled
Notify Type	Read	NOTIFY_ALARM = true NOTIFY_EVENT = false NOTIFY_ACK_NOTIFICATION = false
Time Delay	Read, Write	1
Event Enable	Read	EVENT_STATE_NORMAL = true EVENT_STATE_FAULT = false EVENT_STATE_OFFNORMAL = false EVENT_STATE_HIGH_LIMIT = true); EVENT_STATE_LOW_LIMIT = true
Dead Band	Read	0
Acked Transition	Read	All false

Notification Class:

Property	Access	Default Value
Object Identifier	Read, Write	1
Object Name	Read	NOTI-CLASS
Object Type	Read	Notification Class
Notification Class	Read	1
Priority	Read, Write	10
ACK Required	Read	False
Recipient List	Read	Broad cast
Description	Read, Write	NOTI-CLASS