BFM-B Series BACnet MS/TP Analog Input/Output Modules
Parameter Setup Manual
(To Be Undertaken by Authorized Servicing Agent Only)

The BFM-B binary input/output modules are plug and play devices which will go online automatically and be discovered by the BACnet system when connected to the BACnet MS/TP RS485 network trunk. Make sure that the baud rate of the BFM-B modules is set to match the network baud rate.

Through the BACnet browser, the objects of the modules will be displayed as follows:

BFM-1200B

OBJECT	DEFAULT NAME	INITIAL VALUE
DEV	BFM-1200B	Operational
BV1	Setting	OFF
AI1	INPUT_1	OFF
AI2	INPUT_2	OFF
AI3	INPUT_3	OFF
AI4	INPUT_4	OFF
AI5	INPUT_5	OFF
AI6	INPUT_6	OFF
AI7	INPUT_7	OFF
AI8	INPUT_8	OFF
AI9	INPUT_9	OFF
AI10	INPUT_10	OFF
AI11	INPUT_11	OFF
AI12	INPUT_12	OFF

BFM-0602B

OBJECT	DEFAULT NAME	INITIAL VALUE
DEV	BFM-0602B	Operational
BV1	Setting	OFF
AI1	INPUT_1	OFF
AI2	INPUT_2	OFF
AI3	INPUT_3	OFF
AI4	INPUT_4	OFF
AI5	OUTPUT_1	OFF
AI6	OUTPUT_2	OFF
AI7	OUTPUT_3	OFF
AI8	OUTPUT_4	OFF

Device Object
The device object's default name can be changed by the BACnet system operator and the new name will be stored in the EEPROM chip in the module. Interruption of power supply will not lose the new name.

The BV1 object is used to set the unique device ID of the module in the BACnet network. The device ID address is a 7-digit decimal integer which is divided into 2 parts:

The first 5 digits are set in the BV1 object from 1 to 39999;
The last 2 digits are the module's MAC address set by the DIP switches on the module from 1 to 63.

To Set device ID
This is a two-step operation:
1. Change the Setting value from OFF to ON.
2. Enter the description property of the object in text command format as a string of characters as "/ IDxxxxx" where xxxxx denotes the first 5 digits of the device ID address and its highest number is 39999.

After the setting, the module will be re-initialized and its new device ID address will be automatically discovered by the BACnet system and displayed in the system browser. Interruption of power supply will not lose the new device ID. In the mean time, the original device ID address will go offline and can be deleted manually from the screen.

BFM-1200B
There are 12 binary input objects in each module with input channels ranging from BI1 through BI12. The default names INPUT_1 through INPUT_12 can be changed by the BACnet system operator and the new names will be stored in the EEPROM chip in the module. Interruption of power supply will not lose the new names.

The current value of each binary input object has read only property.
With voltage-free input contacts: when the contact closes, the value changes to active (ON). When the contact opens, the value changes to inactive (OFF).
With DC voltage input: When input is 2.5 ~24 VDC, the value changes to active (ON). When input is 0~1.5 VDC, the value changes to inactive (OFF).

BFM-0602B
There are 6 binary input objects and 2 binary output objects in each module with input channels ranging from BI1 through BI6 and output channels from BO1 through BO2. The default names INPUT_1 through INPUT_6 and OUTPUT_1 through OUTPUT_2 can be changed by the BACnet system operator and the new names will be stored in the EEPROM chip in the module. Interruption of power supply will not lose the new names.

The current value of each binary input object has read only property. When the input contact closes, the value changes to active (ON). When the input contact opens, the value changes to inactive (OFF).

The current value of each binary output object has read/write property. When its value is active (ON), the output contact closes When its value is inactive (OFF), the output contact opens The value of the binary output can be changed by the BACnet system workstation or other controllers in the network. The BO object supports 16 priority arrays where write action of the higher priority array overrides that of the lower priority array until the write action of the higher priority array is relinquished.