

# BACnet Protocol Implementation Conformance Statement

**Date:** February 14, 2020  
**Vendor Name:** mikolab  
**Product Name:** BLC  
**Product Model Number:** BLC-24A, BLC-24B, BLC-24BL, BLC-230A, BLC-230B,  
BLC-230M, BLC-230BM  
**Firmware Revision:** 1.5.x  
**BACnet Protocol Revision:** 12

## Product Description:

BLC-24 and BLC-230 are freely programmable controllers designed to control and monitor circuits in the electrical switchgears, especially for lighting circuits. BLC-24 controllers are equipped with 24 universal channels, each one of them can be used as binary input or binary output. First three channels are adapted to count the pulses S0 of the electric meters according to EN IEC 62053-31 standard. BLC-230 controllers are equipped with 12 binary inputs and 6 binary outputs. Power supply, inputs and outputs in BLC-230 work directly with a line voltage of 230 V, 50 Hz.

## BACnet Standardized Device Profile (Annex L)

BACnet Application Specific Controller (B-ASC)

## List all BACnet Interoperability Building Blocks Supported (Annex K)

Data Sharing	
DS-RP-A	Data Sharing-ReadProperty-A
DS-RP-B	Data Sharing-ReadProperty-B
DS-RPM-B	Data Sharing-ReadPropertyMultiple-B
DS-WP-B	Data Sharing-WriteProperty-B
DS-WPM-B	Data Sharing-WritePropertyMultiple-B
DS-COV-A	Data Sharing-COV-A
DS-COV-B	Data Sharing-COV-B

Device and Network Management	
DM-DDB-A	Device Management-Dynamic Device Binding-A
DM-DDB-B	Device Management-Dynamic Device Binding-B
DM-DCC-B	Device Management-DeviceCommunicationControl-B
DM-TS-B	Device Management-TimeSynchronization-B
DM-RD-B	Device Management-ReinitializeDevice-B
DM-BR-B	Device Management-Backup and Restore-B
DM-OCD-B	Device Management-Object Creation and Deletion-B

Alarm and Event Management	
AE-N-I-B	Alarm and Event Management-Notification-Internal-B
AE-INFO-B	Alarm and Event Management-Information-B
AE-ACK-B	Alarm and Event Management-Acknowledge-B
AE-ASUM-B	Alarm and Event Management-Alarm Summary-B
AE-CRL-B	Alarm and Event Management-Configurable Recipient Lists-B

### Segmentation Capability

- Able to transmit segmented messages Window Size -
- Able to receive segmented messages Window Size –

### Standard Object Types Supported

Device Object Type			
Property Identifier	Writable	Optional	Property Range Restriction
Object_Identifier	<input checked="" type="checkbox"/>		
Object_Name	<input checked="" type="checkbox"/>		1-64 characters
Location	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	0-32 characters
Description	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	0-256 characters
Local_Time		<input checked="" type="checkbox"/>	
Local_Date		<input checked="" type="checkbox"/>	
Max_Master	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Max_Info_Frames	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Configuration_Files		<input checked="" type="checkbox"/>	
Backup_Failure_Timeout	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Backup_Preparation_Time		<input checked="" type="checkbox"/>	

Restore_Preparation_Time		<input checked="" type="checkbox"/>	
Restore_Completion_Time		<input checked="" type="checkbox"/>	
Backup_And_Restore_State		<input checked="" type="checkbox"/>	
Active_COV_Subscriptions		<input checked="" type="checkbox"/>	

Accumulator Object Type			
<input checked="" type="checkbox"/> Create <input checked="" type="checkbox"/> Delete			
Property Identifier	Writable	Optional	Property Range Restriction
Object_Name	<input checked="" type="checkbox"/>		1-64 characters
Description	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	0-256 characters
Present_Value	<input checked="" type="checkbox"/>		
Out_Of_Service	<input checked="" type="checkbox"/>		
Scale	<input checked="" type="checkbox"/>		
Units	<input checked="" type="checkbox"/>		
Prescale	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Max_Pres_Value	<input checked="" type="checkbox"/>		
Value_Change_Time		<input checked="" type="checkbox"/>	
Value_Before_Change		<input checked="" type="checkbox"/>	
Value_Set	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	

Analog Value Object Type			
Property Identifier	Writable	Optional	Property Range Restriction
Object_Name	<input checked="" type="checkbox"/>		1-64 characters
Description	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	0-256 characters
Present_Value	C		
Out_Of_Service	<input checked="" type="checkbox"/>		
Units	<input checked="" type="checkbox"/>		

C - Conditional

Binary Input Object Type			
<input checked="" type="checkbox"/> Create <input checked="" type="checkbox"/> Delete			
Property Identifier	Writable	Optional	Property Range Restriction
Object_Name	<input checked="" type="checkbox"/>		1-64 characters
Description	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	0-256 characters
Present_Value	<input checked="" type="checkbox"/>		

Out_Of_Service	<input checked="" type="checkbox"/>		
Inactive_Text	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	1-32 characters
Active_Text	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	1-32 characters
Polarity	<input checked="" type="checkbox"/>		
Device_Type	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	0-32 characters
Reliability	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Time_Delay	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Notification_Class	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Alarm_Value	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Event_Enable	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Acked_Transitions		<input checked="" type="checkbox"/>	
Notify_Type	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Event_Time_Stamps		<input checked="" type="checkbox"/>	
Event_Message_Texts		<input checked="" type="checkbox"/>	
Event_Message_Texts_Config	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	0-128 characters
Event_Detection_Enable	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Time_Delay_Normal	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	

Binary Output Object Type			
<input checked="" type="checkbox"/> Create <input checked="" type="checkbox"/> Delete			
Property Identifier	Writable	Optional	Property Range Restriction
Object_Name	<input checked="" type="checkbox"/>		1-64 characters
Description	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	0-256 characters
Present_Value	<input checked="" type="checkbox"/>		
Out_Of_Service	<input checked="" type="checkbox"/>		
Inactive_Text	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	1-32 characters
Active_Text	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	1-32 characters
Relinquish_Default	<input checked="" type="checkbox"/>		
Polarity	<input checked="" type="checkbox"/>		
Device_Type	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	0-32 characters
Feedback_Value		<input checked="" type="checkbox"/>	
Reliability	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Time_Delay	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Notification_Class	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Alarm_Value	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Event_Enable	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	

Acked_Transitions		<input checked="" type="checkbox"/>	
Notify_Type	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Event_Time_Stamps		<input checked="" type="checkbox"/>	
Event_Message_Texts		<input checked="" type="checkbox"/>	
Event_Message_Texts_Config	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	0-128 characters
Event_Detection_Enable	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Time_Delay_Normal	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	

Binary Value Object Type			
<input checked="" type="checkbox"/> Create <input checked="" type="checkbox"/> Delete			
Property Identifier	Writable	Optional	Property Range Restriction
Object_Name	<input checked="" type="checkbox"/>		1-64 characters
Description	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	0-256 characters
Present_Value	<input checked="" type="checkbox"/>		
Out_Of_Service	<input checked="" type="checkbox"/>		
Inactive_Text	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	1-32 characters
Active_Text	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	1-32 characters
Priority_Array		<input checked="" type="checkbox"/>	
Relinquish_Default		<input checked="" type="checkbox"/>	
Reliability	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Time_Delay	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Notification_Class	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Alarm_Value	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Event_Enable	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Acked_Transitions		<input checked="" type="checkbox"/>	
Notify_Type	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Event_Time_Stamps		<input checked="" type="checkbox"/>	
Event_Message_Texts		<input checked="" type="checkbox"/>	
Event_Message_Texts_Config	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	0-128 characters
Event_Detection_Enable	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Time_Delay_Normal	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	

Notification Class Object Type			
<input checked="" type="checkbox"/> Create <input checked="" type="checkbox"/> Delete			
Property Identifier	Writable	Optional	Property Range Restriction
Object_Name	<input checked="" type="checkbox"/>		1-64 characters
Description	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	0-256 characters
Priority	<input checked="" type="checkbox"/>		
Ack_Required	<input checked="" type="checkbox"/>		
Recipient_List	<input checked="" type="checkbox"/>		

Multistate Value Object Type			
Property Identifier	Writable	Optional	Property Range Restriction
Object_Name	<input checked="" type="checkbox"/>		1-64 characters
Description	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	0-256 characters
Present_Value	<input checked="" type="checkbox"/>		
Out_Of_Service	<input checked="" type="checkbox"/>		
State_Text		<input checked="" type="checkbox"/>	

Program Object Type			
Property Identifier	Writable	Optional	Property Range Restriction
Object_Name	<input checked="" type="checkbox"/>		1-64 characters
Description	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	0-256 characters
Program_Change	<input checked="" type="checkbox"/>		
Reason_For_Halt		<input checked="" type="checkbox"/>	
Description_Of_Halt		<input checked="" type="checkbox"/>	
Out_Of_Service	<input checked="" type="checkbox"/>		

File Object Type			
Property Identifier	Writable	Optional	Property Range Restriction
File_Size	<input checked="" type="checkbox"/>		
Archive	<input checked="" type="checkbox"/>		
File_Access_Method	<input checked="" type="checkbox"/>		

## Data Link Layer Options

MS/TP master (Clause 9), baud rate(s): 9600, 19200, 38400, 57600, 76800, 115200

## Device Address Binding

Is static device binding supported? (This is currently necessary for two-way communication with MS/TP slaves and certain other devices.)  Yes  No

## Networking Options

Router, Clause 6 - List all routing configurations, e.g., ARCNET-Ethernet, Ethernet-MS/TP, etc.

Annex H, BACnet Tunneling Router over IP

BACnet/IP Broadcast Management Device (BBMD)

Does the BBMD support registrations by Foreign Devices?  Yes  No

Does the BBMD support network address translation?  Yes  No

## Network Security Options

Non-secure Device - is capable of operating without BACnet Network Security

Secure Device - is capable of using BACnet Network Security (NS-SD BIBB)

Multiple Application-Specific Keys:

Supports encryption (NS-ED BIBB)

Key Server (NS-KS BIBB)

## Character Sets Supported

ISO 10646 (UTF-8)