

CCLP-BACnet

Vendor Name:	Cristal Controls Ltd
Product Name:	CCLP-BACnet
Product Model Number:	CCLP-1664-BIP / CCLP-1664-MSTP / CCLP-1664-ETH
Product Version:	3.3.1
BACnet Protocol Revision:	13
Product Description:	<p>The Cristal Controls lighting panels can be used with any Building Management System using the BACnet protocol. Seven models are available from 8 to 64 relays. The CCLP-BACnet controller is the BACnet communication add-on for Cristal Controls lighting panels. This is a natural upgrade to our CCLS-4016 relay scanner.</p> <p>Relays, programmable inputs and groups settings are available through common BACnet objects. This controller features makes lighting control easy to set: ON only, OFF only, flick warnings, automatic OFF timer and relay swipe on communication timeout.</p>

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Standardized Device Profile (Annex L)

BACnet Operator Workstation (B-OWS)	<input type="checkbox"/>
BACnet Building Controller (B-BC)	<input type="checkbox"/>
BACnet Advanced Application Controller (B-AAC)	<input type="checkbox"/>
BACnet Application Specific Controller (B-ASC)	<input checked="" type="checkbox"/>
BACnet Smart Sensor (B-SS)	<input type="checkbox"/>
BACnet Smart Actuator (B-SA)	<input type="checkbox"/>

Interoperability Building Blocks (Annex K)

<i>Data Sharing</i>	
ReadProperty-B	DS-RP-B
WriteProperty-B	DS-WP-B
ReadPropertyMultiple-B	DS-RPM-B
COV-B	DS-COV-B
<i>Device and Network Management</i>	
Dynamic Device Binding-B	DM-DDB-B
Dynamic Object Binding-B	DM-DOB-B
DeviceCommunicationControl-B	DM-DCC-B
ReinitializeDevice-B	DM-RD-B
TimeSynchronization-B	DM-TS-B

Segmentation Capability

Not supported

Object Types Supported

Object Type	Required Properties	Optional Properties
Binary Input	Object_Identifier Object_Name Object_Type Present_Value Status_Flags Event_State Out_Of_Service (W) Polarity	Description Reliability Active_Text Inactive_Text
Binary Output	Object_Identifier Object_Name Object_Type Present_Value (W) Status_Flags Event_State Out_Of_Service (W) Polarity Priority_Array Relinquish_Default	Description Reliability Active_Text Inactive_Text
Binary Value	Object_Identifier Object_Name Object_Type Present_Value (W) Status_Flags Event_State Out_Of_Service	Description Active_Text Inactive_Text Priority_Array Relinquish_Default
Analog Value	Object_Identifier Object_Name Object_Type Present_Value (W) Status_Flags Event_State Out_Of_Service (W) Units	Description Reliability COV_Increment

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Device	Object_Identifier (W) Object_Name (W) Object_Type System_Status Vendor_Name Vendor_Identifier Model_Name Firmware_Revision Application_Software_Version Protocol_Version Protocol_Revision Protocol_Services_Supported Protocol_Object_Types_Supported Object_List Max_APDU_Length_Accepted Segmentation_Supported APDU_Timeout (W) Number_Of_APDU_Retries (W) Device_Address_Binding Database_Revision	Description Local_Time Local_Date Max_Master (W) Max_Info_Frames (W) Configuration_Files Last_Restore_Time Backup_Failure_Timeout (W) Active_COV_Subscriptions Last_Restart_Reason Time_Of_Device_Restart Restart_Notification_Recipients Backup_And_Restore_State Backup_Preparation_Time Restore_Preparation_Time Restore_Completion_Time MSTP_MAC (W) (Proprietary 512)
File	Object_Identifier Object_Name Object_Type File_Type File_Size Modification_Date Archive (W) Read_Only File_Access_Method	Description

(W) = Writable property

Data Link Layer Options

BACnet IP, (Annex J)	<input checked="" type="checkbox"/>
BACnet IP, (Annex J), Foreign Device	<input checked="" type="checkbox"/>
SO 8802-3, Ethernet (Clause 7)(10Base2, 10Base5, 10BaseT, Fiber)	<input checked="" type="checkbox"/>
MS/TP Master (Clause 9), Baud Rate(s): 9600, 19200, 38400, and 76800	<input checked="" type="checkbox"/>
MS/TP Slave (Clause 9), Baud Rate(s)	<input type="checkbox"/>
Point-to-Point, EIA 232 (Clause 10), Baud Rate(s): 9600, 19200, 38400	<input type="checkbox"/>
Point-to-Point, Modem (Clause 10), Baud Rate(s): 9600, 19200, 38400	<input type="checkbox"/>

Device Address Binding

Is static device binding supported?	<input type="checkbox"/>
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Networking Options

Router	<input type="checkbox"/>
Annex H, BACnet Tunneling	<input type="checkbox"/>
BACnet/IP Broadcast Management Device (BBMD)	<input type="checkbox"/>
Does the BBMD Support Registrations by Foreign Devices?	<input type="checkbox"/>

Character Sets

Indicating support for multiple characters sets does not imply that Maximum supported string length is 64 bytes (any character set).

ANSI X3.4 (UTF-8)	<input checked="" type="checkbox"/>
IBM/Microsoft DBCS	<input type="checkbox"/>
JIS C 6226	<input type="checkbox"/>
ISO 10646 (UCS-4)	<input type="checkbox"/>
ISO 10646 (UCS2)	<input type="checkbox"/>
ISO 8859-1	<input type="checkbox"/>

BACnet Objects list

Object	Instance	Name	Min Value	Max Value	Default	Description
Device		CCLP-1664	0	4194302		
BI	0-15	INPUT 01-16	0 = OFF	1 = ON	0 = OFF	Current state of the programmable inputs.
BI	16-79	RELAY FB 01-64	0 = OFF	1 = ON	0 = OFF	Actual state of a relay.
BO	0-63	RELAY CMD 01-64	0 = OFF	1 = ON	0 = OFF	Send a command to a relay.
BO	64-127	RELAY FLK 01-64	0 = OFF	1 = ON	0 = OFF	Send a flick warning command to a relay.
BV	0-7	GROUP CMD 01-08	0 = OFF	1 = ON	0 = OFF	Send command to multiple relays.
BV	8-15	GROUP FLK 01-08	0 = OFF	1 = ON	0 = OFF	Send a flick warning command to multiple relays.
BV	16	CAN-GATEWAY	0 = Disabled	1 = Enabled	0	Enable CCLS-4016 communication across panels.
AV	0-7	GROUP FB 01-07	0.0%	100.0%	0.0%	Feedback for the relays of a group. 0% = OFF, 100% = ON, other = mixed.
AV	8-11	CCLS ADDR 01-04	1	127	Auto	Can address of CCLS-4016 I/O boards.