

CCLK-1004

Vendor Name:	Cristal Controls Ltd
Product Name:	CCLK-1004
Product Model Number:	CC-CLOCK-BIP
Product Version:	3.0.0
BACnet Protocol Revision:	13
Product Description:	<p>This Cristal Controls device can be used with any Building Management System using the BACnet protocol but every setting can be set from display and buttons on the controller. It has two primary functions: Photocell controlled lighting and scheduling.</p> <p>The photocell can control independently any of the 4 relays. Relays are triggered according to minimum light level, maximum light level and a time delay.</p> <p>Every relay has its own typical week schedule done from fixed time or astronomical events. 34 pre-programmed special dates and 2 custom date ranges can override the standard schedule and apply an additional special day so this time clock can be easy to set and forget.</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)

Data Sharing	
ReadProperty-B	DS-RP-B
WriteProperty-B	DS-WP-B
ReadPropertyMultiple-B	DS-RPM-B
Device and Network Management	
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
UTCTimeSynchronization-B	DM-UTC-B
Scheduling	
Scheduling-Readonly-B	SHED-R-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 Polarity	Description
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
Analog Input	Object_Identifier Object_Name Object_Type Present_Value Status_Flags Event_State Out_Of_Service Units	Description Reliability

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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 UTC_Offset Daylight_Savings_Status Configuration_Files Last_Restore_Time Backup_Failure_Timeout (W) Backup_Preparation_Time Restore_Preparation_Time Restore_Completion_Time Backup_And_Restore_State
File	Object_Identifier Object_Name Object_Type File_Type File_Size Modification_Date Archive (W) Read_Only File_Access_Method	Description

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Schedule	Object_Identifier	Description
	Object_Name	Weekly_Schedule
	Object_Type	Exception_Schedule
	Present_Value	
	Effective_Period	
	Schedule_Default	
	List_Of_Object_Property_References	
	Priority_For_Writing	
	Status_Flags	
	Reliability	
	Out_Of_Service	

(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 type="checkbox"/>
MS/TP Master (Clause 9), Baud Rate(s): 9600, 19200, 38400, and 76800	<input 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"/>

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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		CCLK-1004	0	4194302		
AI	0	PHOTOCELL	0 Lux	xx Lux	0 Lux	Daylight analog input.
AI	1	INPUT 0-10V	0%	100%	0	0-10V analog input.
BI	0-3	RELAY FB 01-04	0 = OFF	1 = ON	0 = OFF	Actual state of a relay.
BO	0-3	RELAY CMD 01-04	0 = OFF	1 = ON	0 = OFF	Send a command to a relay.
Schedule	0-3	SCHEDULE 01-04	-	-	-	Read only schedules as programmed on the interface.