

InRow® RC Chilled Water Air Conditioners, 300 mm

This document details the BACnet objects and properties supported by the application firmware v6.0.0 and higher (v6.0.0+), which is available on the APC or Schneider Electric Web site.

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Additional Information

- Information on the BACnet protocol specification can found at www.bacnet.org.
- Schneider Electric recommends EcoStruxure Building Operation software (formerly known as StruxureWare Building Operation/SBO) for integrated monitoring, control and management of BACnet-enabled devices.
- See the Network Management Card 2 User Guide available on the APC website for more information on configuring the NMC 2 for BACnet.
- The application firmware v2.4.2.1+ for InRow CW ACRC301S and ACRC301H cooling units supports BACnet/IP only.

Analog Value Objects

Index	ID	Name	Description	Options	Access
0	79691776	On or Standby	On / Standby	1=Standby, 2=On	RW
1	79691777	Idle on Leak Detect	Idle on Leak Detect	1=No, 2=Yes	RW
2	79691778	Operating Mode	Operating Mode	1=Standby, 2=On, 3=Idle, 4=Maintenance	RO
3	79691779	Idle On Cool Fail	Idle On Cool Fail	1=No, 2=Yes	RW
4	79691780	Power Source	Power Source	1=Single, 2=Dual	RW
5	79691781	Chilled Water Valve Control	Chilled Water Valve Control	1=Automatic, 2=Open	RO
6	79691782	Bypass Valve Position	Bypass Valve Position	1=Open, 2=Closed	RW
7	79691783	Air Filter Type	Air Filter Type	1=Standard, 2=Pleated	RW
8	79691784	Alarm On Standby	Alarm On Standby	1=No, 2=Yes	RW
9	79691785	Auto Recover Cool Fail	Auto Recover Cool Fail	1=No, 2=Yes	RO
32	79691808	Circulation Pump Model	Circulation Pump Model	1=None, 2=Stratos, 3=Stratos Maxo	RO
10	79691786	Air Filter Service Alarm Enable	Air Filter Service Alarm Enable	1=Disable, 2=Enable	RW
11	79691787	Unit Service Alarm Enable	Unit Service Alarm Enable	1=Disable, 2=Enable	RO
12	79691788	Reset Air Filter Service Alarm	Reset Air Filter Service Alarm	1=No, 2=Yes	RW
13	79691789	Standby Input Normal State	Standby Input Normal State	1=Open, 2=Closed	RW
14	79691790	Standby Input State	Standby Input State	1=Open, 2=Closed	RO
15	79691791	Output State_1	Output State 1	1=Abnormal, 2=Normal	RO
16	79691792	Output State_2	Output State 2	1=Abnormal, 2=Normal	RO
17	79691793	Output State_3	Output State 3	1=Abnormal, 2=Normal	RO
18	79691794	Output State_4	Output State 4	1=Abnormal, 2=Normal	RO
19	79691795	Leak Detector_1	Leak Detector 1	1=No Leak, 2=Leak Detected	RO
20	79691796	Leak Detector_2	Leak Detector 2	1=No Leak, 2=Leak Detected	RO
21	79691797	Leak Detector_3	Leak Detector 3	1=No Leak, 2=Leak Detected	RO
22	79691798	Leak Detector_4	Leak Detector 4	1=No Leak, 2=Leak Detected	RO
23	79691799	Active Power Source	Active Power Source	1=Primary, 2=Secondary, 3=No Mains	RO
24	79691800	Active Flow Control Status	Active Flow Control Status	1=Under, 2=Okay, 3=Over, 4=N/A	RO
25	79691801	Clear Active Alarms	Clear Active Alarms	1=No, 2=Yes	RW
26	79691802	Reset Unit Energy	Reset Unit Energy	1=No, 2=Yes	RW
27	79691803	Configuration Type	Configuration Type	1=RACS, 2=HACS, 3=In-Row, 4=CACS	RO
28	79691804	Airflow Control	Airflow Control	1=Automatic, 2=60%, 3=70%, 4=80%, 5=90%, 6=100%	RW
29	79691805	Delta-T Setpoint	Delta-T Setpoint	1=10F/5.6C, 2=15F/8.3C, 3=20F/11.1C, 4=25F/13.9C, 5=30F/16.7C, 6=35F/19.4C, 7=40F/22.2C	RW
30	79691806	Active Flow Control Bias	Active Flow Control Bias	1=Positive, 2=Slightly Positive, 3=Zero, 4=Slightly Negative, 5=Negative	RO
31	79691807	Active Flow Control Lamp Test	Active Flow Control Lamp Test	1=Off, 2=On	RW

Binary Value Objects (alarms; 0=Inactive, 1=Active)

Index	ID	Name	Description	Access
0	20971520	BN3902	Internal Communication Error	RO
1	20971521	BN3904	Unexpected Number of Units in Group	RO
2	20971522	BN3906	Cool Fail	RO
3	20971523	BN3908	Rack Temperature High Violation	RO
4	20971524	BN390A	Air Filter Clogged	RO
5	20971525	BN390C	Upper Return Air Sensor Fault	RO
6	20971526	BN390E	Lower Return Air Sensor Fault	RO
7	20971527	BN3910	Upper Supply Air Sensor Fault	RO
8	20971528	BN3912	Lower Supply Air Sensor Fault	RO
9	20971529	BN3914	Rack Temperature Sensor 1 Fault	RO
10	20971530	BN3916	Rack Temperature Sensor 2 Fault	RO
11	20971531	BN3918	Rack Temperature Sensor 3 Fault	RO
12	20971532	BN391A	Rack Temperature Sensor 4 Fault	RO
13	20971533	BN391C	Fan 1 Fault	RO
14	20971534	BN391E	Fan 2 Fault	RO
15	20971535	BN3920	Fan 3 Fault	RO
16	20971536	BN3922	Fan 4 Fault	RO
17	20971537	BN3924	Fan 5 Fault	RO
18	20971538	BN3926	Fan 6 Fault	RO
19	20971539	BN3928	Fan 7 Fault	RO
20	20971540	BN392A	Fan 8 Fault	RO
21	20971541	BN392C	Chilled Water Valve Actuator Fault	RO
22	20971542	BN392E	Water Detected Fault	RO
23	20971543	BN3930	Water Detected Shutdown	RO
24	20971544	BN3932	Check Condensate Management System	RO
25	20971545	BN3934	Chilled Water Flow Meter Fault	RO
26	20971546	BN3936	Entering Chilled Water Temperature High Violation	RO
27	20971547	BN3938	Entering Chilled Water Temperature Sensor Fault	RO
28	20971548	BN393A	Leaving Chilled Water Temperature Sensor Fault	RO
29	20971549	BN393C	Condensate Pan Full	RO
30	20971550	BN393E	Primary Power Source Fail	RO
31	20971551	BN3940	Secondary Power Source Fail	RO
32	20971552	BN3942	Fan Power Supply 1 Fault	RO
33	20971553	BN3944	Fan Power Supply 2 Fault	RO
34	20971554	BN3946	Air Filter Run Hours Violation	RO
35	20971555	BN3948	Supply Air High Temperature Violation	RO
36	20971556	BN394A	Return Air High Temperature Violation	RO
37	20971557	BN394C	Filter DP Sensor Failure	RO
38	20971558	BN394E	Standby Due to Input Contact	RO
39	20971559	BN3950	Chilled Water Valve Control Not Set to Auto	RO
40	20971560	BN3952	EcoAisle Door Open	RO
41	20971561	BN3954	Unexpected Number of Active Flow Controllers	RO

Index	ID	Name	Description	Access
42	20971562	BN3956	Insufficient Airflow	RO
43	20971563	BN3958	Active Flow Controller Sensor Fault	RO
44	20971564	BN395A	Unit Service Required	RO
45	20971565	BN395C	Humidity Sensor Fault	RO
46	20971566	BN395E	Coil Condensation Possible	RO
47	20971567	BN3960	Controller Power Supply 1 Fault	RO
48	20971568	BN3962	Controller Power Supply 2 Fault	RO
49	20971569	BN3964	Coil Chilled Water Temperature Sensor Fault	RO
50	20971570	BN3966	Fan Power Supply 1 Current Sense Fault	RO
51	20971571	BN3968	Fan Power Supply 2 Current Sense Fault	RO
52	20971572	BN396A	Factory Configuration Not Completed	RO
53	20971573	BN396C	Unit is in Maintenance Mode	RO
54	20971574	BN396E	Unexpected Number of Rack Inlet Temperature Sensors	RO
55	20971575	BN3970	Unexpected Number of Leak Detectors	RO
56	20971576	BN3972	Output Relay 1 Active	RO
57	20971577	BN3974	Output Relay 2 Active	RO
58	20971578	BN3976	Output Relay 3 Active	RO
59	20971579	BN3978	Output Relay 4 Active	RO
60	20971580	BN397A	Circulation Pump Fault	RO
61	20971581	BN397C	Standby Due to User Action	RO
62	20971582	BN397E	Circulation Pump Communication Loss	RO
63	20971583	BN3980	Circulation Pump Warning Present	RO
64	20971584	BN3982	Circulation Pump Needs Service	RO

Binary Value Objects (data)

None

Character String Value Objects

Index	ID	Name	Description	Max. Chars	Access
0	167772160	Model Number	Model Number	19	RO
1	167772161	Serial Number	Serial Number	19	RO
2	167772162	Firmware Revision_1	Firmware Revision (Executing)	19	RO
3	167772163	Firmware Revision_2	Firmware Revision (Newest)	19	RO
4	167772164	Firmware Revision_3	Firmware Revision (Oldest)	19	RO
5	167772165	Firmware Revision_4	Firmware Revision (Bootloader)	19	RO
6	167772166	Hardware Revision	Hardware Revision	7	RO

Notification Class Objects

Index	Bacnet ID	BACnet Name	Description	Access
0	62914560	DefaultNotifier	Default Notification Class	RW

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Air Filter Service Interval	Analog Value	9	8
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BN3904	Binary Value	2	1
BN3906	Binary Value	3	2
BN3908	Binary Value	4	3
BN390A	Binary Value	5	4
BN390C	Binary Value	6	5
BN390E	Binary Value	7	6
BN3910	Binary Value	8	7
BN3912	Binary Value	9	8
BN3914	Binary Value	10	9
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BN3918	Binary Value	12	11
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BACnet Name	Object Type	Table Position	BACnet Index
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BN393C	Binary Value	30	29
BN393E	Binary Value	31	30
BN3940	Binary Value	32	31
BN3942	Binary Value	33	32
BN3944	Binary Value	34	33
BN3946	Binary Value	35	34
BN3948	Binary Value	36	35
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BN395A	Binary Value	45	44
BN395C	Binary Value	46	45
BN395E	Binary Value	47	46
BN3960	Binary Value	48	47
BN3962	Binary Value	49	48
BN3964	Binary Value	50	49
BN3966	Binary Value	51	50
BN3968	Binary Value	52	51
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Leak Detector_3	Multi-State Value	23	21
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