

## Data point list Modbus/TCP X-CUBE Control

D: important data points

S: system specific data points

default BACnet Device ID: 105001

no.	D/S	group	object name	description	R/W	unit	object type	values	object instance
1		system data	bInHeartBeat2PLC	Heart beat from BMS to the local PLC; auto returns to FALSE	W		4 (BO)	ACTIVE = on	1
2	D	system data	bInResetErrors	reset all errors	W		4 (BO)	ACTIVE = reset	2
3		system data	bInLight	switch on internal maintenance lighting	W		4 (BO)	ACTIVE = on	3
4		system data	bInTestFireDampers	starts test of all fire dampers	W		4 (BO)	ACTIVE = start	4
5	D	system data	eInSystemMode	AHU operation mode	W	(95)	1 (AO)	0 = off; 1 = manual mode; 2 = auto mode	5
6	S	system data	fInMeasTempOutdoor	send present value outdoor temperature to local PLC	W	°C (62)	1 (AO)		6
7		setpoints	bInSPStandby	force AHU to standby mode	W		4 (BO)	ACTIVE = standby	7
8	D	setpoints	fInSPFanSUP	setpoint of the supply air fan, unit depends on control strategy	W	(95)	1 (AO)		8
9	D	setpoints	fInSPFanETA	setpoint of the extract air fan, unit depends on control strategy	W	(95)	1 (AO)		9
10	D	setpoints	fInSPTempMin	setpoint of the min. air temperature	W	°C (62)	1 (AO)		10
11	D	setpoints	fInSPTempMax	setpoint of the max. air temperature	W	°C (62)	1 (AO)		11
12	S	setpoints	fInSPHumMin	setpoint of the min. air humidity	W	g/kg (28)	1 (AO)		12
13	S	setpoints	fInSPHumMax	setpoint of the max. air humidity	W	g/kg (28)	1 (AO)		13
14		setpoints	fInPowerDemandIC	power demand 0...100% of the integrated refrigerating (standalone only)	W	% (98)	1 (AO)		18
15		setpoints	fInPowerDemandRac	power demand 0...100% of the run around coil system (standalone only)	W	% (98)	1 (AO)		19
16		setpoints	fInSupplyAirFlowRac	supply air volume flow to the run around coil system (standalone only)	W	m³/h (135)	1 (AO)		20
17	S	settings	fInSPTempSUPMin	setpoint of the min. supply air temperature	W	°C (62)	1 (AO)		14
18	S	settings	fInSPTempSUPMax	setpoint of the max. supply air temperature	W	°C (62)	1 (AO)		15
19	S	settings	fInSPHumSUPMin	setpoint of the min. supply air humidity	W	g/kg (28)	1 (AO)		16
20	S	settings	fInSPHumSUPMax	setpoint of the max. supply air humidity	W	g/kg (28)	1 (AO)		17
21		system data	bOutHeartbeat2BMS	heart beat from local PLC to the BMS	R		3 (BI)	ACTIVE = on	0
22		system data	bOutLight	internal maintenance lighting	R		3 (BI)	ACTIVE = on	1
23		system data	bOutExtLock	ext. lock of the AHU	R		3 (BI)	ACTIVE = ok	2
24	S	system data	bOutVoltageError	voltage error	R		3 (BI)	ACTIVE = ok	395
25	S	system data	bOutMainFuseError	main fuse error	R		3 (BI)	ACTIVE = ok	396
26	S	system data	bOutFireAlarm	error triggered fire alarm	R		3 (BI)	ACTIVE = ok	397
27		system data	bOutModbuslineError	error modbus line	R		3 (BI)	ACTIVE = ok	399
28	S	system data	bOutFrostProtection	error triggered frost protection	R		3 (BI)	ACTIVE = ok	398
29	D	system data	eOutEventNotification	notification of alarm class	R	(95)	0 (AI)	0 = no alarm; 1 = warning (B-alarm); 2 = critical (A-alarm)	1
30	S	system data	fOutPVTempOutdoor	present value outdoor air temperature	R	°C (62)	0 (AI)		0
31		system data	bOutSmokeDetectorErr1	triggered smoke detector 1	R		3 (BI)	ACTIVE = ok	385
32		system data	bOutSmokeDetectorErr2	triggered smoke detector 2	R		3 (BI)	ACTIVE = ok	386
33		system data	bOutSmokeDetectorErr3	triggered smoke detector 3	R		3 (BI)	ACTIVE = ok	387
34		system data	bOutSmokeDetectorErr4	triggered smoke detector 4	R		3 (BI)	ACTIVE = ok	388
35		system data	bOutSmokeDetectorErr5	triggered smoke detector 5	R		3 (BI)	ACTIVE = ok	389

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no.	D/S	group	object name	description	R/W	unit	object type	values	object instance
36		system data	bOutSmokeDetectorDirty1	smoke detector 1 is dirty	R		3 (BI)	ACTIVE = ok	390
37		system data	bOutSmokeDetectorDirty2	smoke detector 2 is dirty	R		3 (BI)	ACTIVE = ok	391
38		system data	bOutSmokeDetectorDirty3	smoke detector 3 is dirty	R		3 (BI)	ACTIVE = ok	392
39		system data	bOutSmokeDetectorDirty4	smoke detector 4 is dirty	R		3 (BI)	ACTIVE = ok	393
40		system data	bOutSmokeDetectorDirty5	smoke detector 5 is dirty	R		3 (BI)	ACTIVE = ok	394
41		system data	bOutExtAlarm1	State of the ext. alarm number 1, polarity depends on configuration	R		3 (BI)		3
42		system data	bOutExtAlarm2	State of the ext. alarm number 2, polarity depends on configuration	R		3 (BI)		4
43		system data	bOutExtAlarm3	State of the ext. alarm number 3, polarity depends on configuration	R		3 (BI)		5
44		system data	bOutExtAlarm4	State of the ext. alarm number 4, polarity depends on configuration	R		3 (BI)		6
45		system data	bOutExtAlarm5	State of the ext. alarm number 5, polarity depends on configuration	R		3 (BI)		7
46		system data	bOutExtAlarm6	State of the ext. alarm number 6, polarity depends on configuration	R		3 (BI)		8
47		system data	bOutExtAlarm7	State of the ext. alarm number 7, polarity depends on configuration	R		3 (BI)		9
48		system data	bOutExtAlarm8	State of the ext. alarm number 8, polarity depends on configuration	R		3 (BI)		10
49		system data	bOutExtAlarm9	State of the ext. alarm number 9, polarity depends on configuration	R		3 (BI)		11
50		system data	bOutExtAlarm10	State of the ext. alarm number 10, polarity depends on configuration	R		3 (BI)		12
51		measurement data	fOutPVHumRoom1	present value room humidity 1	R	%rF (29)	0 (AI)		14
52		measurement data	fOutPVHumRoom2	present value room humidity 2	R	%rF (29)	0 (AI)		15
53		measurement data	fOutPVHumRoom3	present value room humidity 3	R	%rF (29)	0 (AI)		16
54		measurement data	fOutPVHumRoom4	present value room humidity 4	R	%rF (29)	0 (AI)		17
55		measurement data	fOutPVHumRoom5	present value room humidity 5	R	%rF (29)	0 (AI)		18
56		measurement data	fOutPVHumRoomMean	mean value of all room humidities	R	%rF (29)	0 (AI)		19
57	S	measurement data	fOutPVTempODA	present value outdoor air temperature	R	°C (62)	0 (AI)		2
58	S	measurement data	fOutPVTempSUP	present value supply air temperature	R	°C (62)	0 (AI)		3
59	S	measurement data	fOutPVTempETA	present value extracted air temperature	R	°C (62)	0 (AI)		4
60		measurement data	fOutPVTempEHA	present value exhausts air temperature	R	°C (62)	0 (AI)		5
61		measurement data	fOutPVHumODA	present value outdoor air humidity	R	%rF (29)	0 (AI)		6
62		measurement data	fOutPVHumSUP	present value supply air humidity	R	%rF (29)	0 (AI)		7
63		measurement data	fOutPVHumETA	present value extracted air humidity	R	%rF (29)	0 (AI)		8
64		measurement data	fOutPVHumEHA	present value exhausts air humidity	R	%rF (29)	0 (AI)		9
65		measurement data	fOutPVPressureSUP	present value supply duct pressure	R	Pa (53)	0 (AI)		10
66		measurement data	fOutPVPressureETA	present value exhaust duct pressure	R	Pa (53)	0 (AI)		11
67		measurement data	fOutPV_VOC	present value voc concentration	R	ppm (96)	0 (AI)		12
68		measurement data	fOutPV_CO2	present value CO2 concentration	R	ppm (96)	0 (AI)		13
69	S	measurement data	fOutPVTempRoom1	present value room temperature 1	R	°C (62)	0 (AI)		20
70	S	measurement data	fOutPVTempRoom2	present value room temperature 2	R	°C (62)	0 (AI)		21
71	S	measurement data	fOutPVTempRoom3	present value room temperature 3	R	°C (62)	0 (AI)		22
72	S	measurement data	fOutPVTempRoom4	present value room temperature 4	R	°C (62)	0 (AI)		23
73	S	measurement data	fOutPVTempRoom5	present value room temperature 5	R	°C (62)	0 (AI)		24

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74	S	measurement data	fOutPVTempRoom6	present value room temperature 6	R	°C (62)	0 (AI)		25
75	S	measurement data	fOutPVTempRoom7	present value room temperature 7	R	°C (62)	0 (AI)		26
76	S	measurement data	fOutPVTempRoom8	present value room temperature 8	R	°C (62)	0 (AI)		27
77	S	measurement data	fOutPVTempRoomMean	mean value of all room temperatures	R	°C (62)	0 (AI)		28
78	S	cooler	bOutCoolerMotorProtection	error motor protection cooler pump	R		3 (BI)	ACTIVE = ok	400
79		cooler	bOutCoolerValveComErr	modbus comm. error with the cooler valve	R		3 (BI)	ACTIVE = ok	401
80	S	cooler	bOutCoolerCtrlPumpON	controlled value to switch on/off the cooler pump	R		3 (BI)	ACTIVE = on	402
81	S	cooler	fOutCoolerPVValvePos	current position of the cooler valve	R	% (98)	0 (AI)		29
82	S	cooler	fOutCoolerPVInletTemp	present value of the cooler inlet temperature	R	°C (62)	0 (AI)		31
83		cooler	fOutCoolerCtrlValvePos	controlled value of the cooler valve	R	% (98)	0 (AI)		30
84	S	preheater	bOutPreheaterMotorProtection	error motor protection preheater pump	R		3 (BI)	ACTIVE = ok	403
85		preheater	bOutPreheaterValveComErr	modbus comm. error with the preheater valve	R		3 (BI)	ACTIVE = ok	404
86	S	preheater	bOutPreheaterCtrlPumpON	controlled value to switch on/off the preheater pump	R		3 (BI)	ACTIVE = on	405
87	S	preheater	fOutPreheaterPVValvePos	current position of the preheater valve	R	% (98)	0 (AI)		32
88	S	preheater	fOutPreheaterPVReturnTemp	present value of the preheater outlet temperature	R	°C (62)	0 (AI)		34
89		preheater	fOutPreheaterCtrlValvePos	controlled value of the preheater valve	R	% (98)	0 (AI)		33
90	S	reheater	bOutReheaterMotorProtection	error motor protection reheater pump	R		3 (BI)	ACTIVE = ok	406
91		reheater	bOutReheaterValveComErr	modbus comm. error with the reheater valve	R		3 (BI)	ACTIVE = ok	407
92	S	reheater	bOutReheaterCtrlPumpON	controlled value to switch on/off the reheater pump	R		3 (BI)	ACTIVE = on	408
93	S	reheater	fOutReheaterPVValvePos	current position of the reheater valve	R	% (98)	0 (AI)		35
94	S	reheater	fOutReheaterPVReturnTemp	present value of the reheater outlet temperature	R	°C (62)	0 (AI)		37
95		reheater	fOutReheaterCtrlValvePos	controlled value of the reheater valve	R	% (98)	0 (AI)		36
96		damper	bOutDamperODAComErr	modbus comm. error with the outdoor air damper	R		3 (BI)	ACTIVE = ok	409
97		damper	bOutDamperSUPComErr	modbus comm. error with the supply air damper	R		3 (BI)	ACTIVE = ok	410
98		damper	bOutDamperETAComErr	modbus comm. error with the extracted air damper	R		3 (BI)	ACTIVE = ok	411
99		damper	bOutDamperEHAComErr	modbus comm. error with the exhaust air damper	R		3 (BI)	ACTIVE = ok	412
100		damper	bOutDamperRCAComErr	modbus comm. error with the recovery air damper	R		3 (BI)	ACTIVE = ok	421
101		damper	bOutDamperODAComErr2	modbus comm. error with the second outdoor air damper	R		3 (BI)	ACTIVE = ok	415
102		damper	bOutDamperSUPComErr2	modbus comm. error with the second supply air damper	R		3 (BI)	ACTIVE = ok	416
103		damper	bOutDamperETAComErr2	modbus comm. error with the second extracted air damper	R		3 (BI)	ACTIVE = ok	417
104		damper	bOutDamperEHAComErr2	modbus comm. error with the second exhaust air damper	R		3 (BI)	ACTIVE = ok	418
105		damper	bOutDamperRCAComErr2	modbus comm. error with the second recovery air damper	R		3 (BI)	ACTIVE = ok	422
106		damper	bOutDamperFanSUPComErr	modbus comm. error with the supply air fan damper	R		3 (BI)	ACTIVE = ok	413
107		damper	bOutDamperFanETAComErr	modbus comm. error with the extracted air fan damper	R		3 (BI)	ACTIVE = ok	414
108		damper	bOutDamperFanSUPComErr2	modbus comm. error with the second supply air fan damper	R		3 (BI)	ACTIVE = ok	419
109		damper	bOutDamperFanETAComErr2	modbus comm. error with the second extracted air fan damper	R		3 (BI)	ACTIVE = ok	420
110	S	damper	fOutDamperODAPVPos	current position of the outdoor air damper	R	% (98)	0 (AI)		38
111	S	damper	fOutDamperSUPPVPos	current position of the supply air damper	R	% (98)	0 (AI)		39

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112	S	damper	fOutDamperETAPVPos	current position of the extract air damper	R	% (98)	0 (AI)		40
113	S	damper	fOutDamperEHAPVPos	current position of the exhaust air damper	R	% (98)	0 (AI)		41
114	S	damper	fOutDamperRCAPVPos	current position of the recovery air damper	R	% (98)	0 (AI)		50
115		damper	fOutDamperODAPVPos2	current position of the second outdoor air damper	R	% (98)	0 (AI)		42
116		damper	fOutDamperSUPVPos2	current position of the second supply air damper	R	% (98)	0 (AI)		43
117		damper	fOutDamperETAPVPos2	current position of the second extract air damper	R	% (98)	0 (AI)		44
118		damper	fOutDamperEHAPVPos2	current position of the second exhaust air damper	R	% (98)	0 (AI)		45
119		damper	fOutDamperRCAPVPos2	current position of the second recovery air damper	R	% (98)	0 (AI)		51
120		damper	fOutDamperFanSUPVPos	current position of the supply air fan damper	R	% (98)	0 (AI)		46
121		damper	fOutDamperFanETAPVPos	current position of the extract air fan damper	R	% (98)	0 (AI)		47
122		damper	fOutDamperFanSUPVPos2	current position of the second supply air fan damper	R	% (98)	0 (AI)		48
123		damper	fOutDamperFanETAPVPos2	current position of the second extract air fan damper	R	% (98)	0 (AI)		49
124	S	damper	fOutDamperODACtrlPos	controlled value of the outdoor air damper position	R	% (98)	0 (AI)		52
125	S	damper	fOutDamperSUPCtrlPos	controlled value of the supply air damper position	R	% (98)	0 (AI)		53
126	S	damper	fOutDamperETACtrlPos	controlled value of the extract air damper position	R	% (98)	0 (AI)		54
127	S	damper	fOutDamperEHACtrlPos	controlled value of the exhaust air damper position	R	% (98)	0 (AI)		55
128	S	damper	fOutDamperRCACtrlPos	controlled value of the recovery air damper position	R	% (98)	0 (AI)		64
129		damper	fOutDamperODACtrlPos2	controlled value of the second outdoor air damper position	R	% (98)	0 (AI)		56
130		damper	fOutDamperSUPCtrlPos2	controlled value of the second supply air damper position	R	% (98)	0 (AI)		57
131		damper	fOutDamperETACtrlPos2	controlled value of the second extract air damper position	R	% (98)	0 (AI)		58
132		damper	fOutDamperEHACtrlPos2	controlled value of the second exhaust air damper position	R	% (98)	0 (AI)		59
133		damper	fOutDamperRCACtrlPos2	controlled value of the second recovery air damper position	R	% (98)	0 (AI)		65
134		damper	fOutDamperFanSUPCtrlPos	controlled value of the supply air fan damper position	R	% (98)	0 (AI)		60
135		damper	fOutDamperFanETACtrlPos	controlled value of the extract air fan damper position	R	% (98)	0 (AI)		61
136		damper	fOutDamperFanSUPCtrlPos2	controlled value of the second supply air fan damper position	R	% (98)	0 (AI)		62
137		damper	fOutDamperFanETACtrlPos2	controlled value of the second extract air fan damper position	R	% (98)	0 (AI)		63
138		supply air fan	bOutFanSUPMotorProtection	motor protection of the supply air fan is inactive	R		3 (BI)	ACTIVE = ok	423
139		supply air fan	bOutFanSUPRepairSwitch	repair switch of the supply air fan is active	R		3 (BI)	ACTIVE = ok	427
140	S	supply air fan	bOutFanSUPInErr	internal error of the supply air fan	R		3 (BI)	ACTIVE = ok	491
141		supply air fan	bOutFanSUPComErr	modbus comm. error with the supply air fan	R		3 (BI)	ACTIVE = ok	459
142		supply air fan	bOutFanSUPDpComErr	modbus comm. error with the pressure transmitter of the supply air fan	R		3 (BI)	ACTIVE = ok	523
143	S	supply air fan	bOutFanSUPCtrlON	controlled value to switch on/off the supply air fan	R		3 (BI)	ACTIVE = on	527
144		supply air fan	bOutFanSUPMotorProtection2	motor protection of the second supply air fan is inactive	R		3 (BI)	ACTIVE = ok	424
145		supply air fan	bOutFanSUPRepairSwitch2	repair switch of the second supply air fan is active	R		3 (BI)	ACTIVE = ok	428
146		supply air fan	bOutFanSUPInErr2	internal error of the second supply air fan	R		3 (BI)	ACTIVE = ok	492
147		supply air fan	bOutFanSUPComErr2	modbus comm. error with the second supply air fan	R		3 (BI)	ACTIVE = ok	460
148		supply air fan	bOutFanSUPDpComErr2	modbus comm. error with the pressure transmitter of the second supply air fan	R		3 (BI)	ACTIVE = ok	524
149		supply air fan	bOutFanSUPCtrlON2	controlled value to switch on/off the second supply air fan	R		3 (BI)	ACTIVE = on	528

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150	S	supply air fan	fOutFanSUPCtrlSpeed	controlled value of the supply air fan speed [0..100%]	R	% (98)	0 (AI)		66
151	S	supply air fan	fOutFanSUPPVdp	present value supply air fan diff. pressure	R	Pa (53)	0 (AI)		70
152	S	supply air fan	fOutFanSUPPVAirflow	present value supply airflow	R	m³/h (135)	0 (AI)		74
153		supply air fan	fOutFanSUPCtrlSpeed2	controlled value of the second supply air fan speed [0..100%]	R	% (98)	0 (AI)		67
154		supply air fan	fOutFanSUPPVdp2	present value second supply air fan diff. pressure	R	Pa (53)	0 (AI)		71
155		supply air fan	fOutFanSUPPVAirflow2	present value second supply airflow	R	m³/h (135)	0 (AI)		75
156		extract air fan	bOutFanETAMotorProtection	motor protection of the extract air fan is inactive	R		3 (BI)	ACTIVE = ok	425
157		extract air fan	bOutFanETARepairSwitch	repair switch of the extract air fan is active	R		3 (BI)	ACTIVE = ok	443
158	S	extract air fan	bOutFanETAlnErr	internal error of the extract air fan	R		3 (BI)	ACTIVE = ok	507
159		extract air fan	bOutFanETAComErr	modbus comm. error with the extract air fan	R		3 (BI)	ACTIVE = ok	475
160		extract air fan	bOutFanETADpComErr	modbus comm. error with the pressure transmitter of the extract air fan	R		3 (BI)	ACTIVE = ok	525
161	S	extract air fan	bOutFanETACtrlON	controlled value to switch on/off the extract air fan	R		3 (BI)	ACTIVE = on	543
162		extract air fan	bOutFanETAMotorProtection2	motor protection of the second extract air fan is inactive	R		3 (BI)	ACTIVE = ok	426
163		extract air fan	bOutFanETARepairSwitch2	repair switch of the second extract air fan is active	R		3 (BI)	ACTIVE = ok	444
164		extract air fan	bOutFanETAlnErr2	internal error of the second extract air fan	R		3 (BI)	ACTIVE = ok	508
165		extract air fan	bOutFanETAComErr2	modbus comm. error with the second extract air fan	R		3 (BI)	ACTIVE = ok	476
166		extract air fan	bOutFanETADpComErr2	modbus comm. error with the pressure transmitter of the second extract air fan	R		3 (BI)	ACTIVE = ok	526
167		extract air fan	bOutFanETACtrlON2	controlled value to switch on/off the second extract air fan	R		3 (BI)	ACTIVE = on	544
168	S	extract air fan	fOutFanETAPVdp	controlled value of the extract air fan speed [0..100%]	R	% (98)	0 (AI)		68
169	S	extract air fan	fOutFanETAPVdp	present value extract air fan diff. pressure	R	Pa (53)	0 (AI)		72
170	S	extract air fan	fOutFanETAPVAirflow	present value extract airflow	R	m³/h (135)	0 (AI)		76
171		extract air fan	fOutFanETAPVdp2	controlled value of the second extract air fan speed [0..100%]	R	% (98)	0 (AI)		69
172		extract air fan	fOutFanETAPVdp2	present value second extract air fan diff. pressure	R	Pa (53)	0 (AI)		73
173		extract air fan	fOutFanETAPVAirflow2	present value second extract airflow	R	m³/h (135)	0 (AI)		77
174	S	filter	bOutFilterODACHangeErr	error outdoor air filter change required	R		3 (BI)	ACTIVE = ok	559
175	S	filter	bOutFilterSUPChangeErr	error supply air filter change required	R		3 (BI)	ACTIVE = ok	560
176	S	filter	bOutFilterETACHangeErr	error extract air filter change required	R		3 (BI)	ACTIVE = ok	561
177		filter	bOutFilterODADpComErr	comm. error pressure sensor outdoor air filter	R		3 (BI)	ACTIVE = ok	562
178		filter	bOutFilterSUPDpComErr	comm. error pressure sensor supply air filter	R		3 (BI)	ACTIVE = ok	563
179		filter	bOutFilterETADpComErr	comm. error pressure sensor extract air filter	R		3 (BI)	ACTIVE = ok	564
180		filter	bOutFilterODACHangeErr2	error second outdoor air filter change required	R		3 (BI)	ACTIVE = ok	565
181		filter	bOutFilterSUPChangeErr2	error second supply air filter change required	R		3 (BI)	ACTIVE = ok	566
182		filter	bOutFilterETACHangeErr2	error second extract air filter change required	R		3 (BI)	ACTIVE = ok	567
183		filter	bOutFilterODADpComErr2	comm. error pressure sensor second outdoor air filter	R		3 (BI)	ACTIVE = ok	568
184		filter	bOutFilterSUPDpComErr2	comm. error pressure sensor second supply air filter	R		3 (BI)	ACTIVE = ok	569
185		filter	bOutFilterETADpComErr2	comm. error pressure sensor second extract air filter	R		3 (BI)	ACTIVE = ok	570
186	S	filter	tOutFilterODAHoldingTime	holding time outdoor air filter (in hour)	R	h (71)	0 (AI)		78
187	S	filter	tOutFilterSUPHoldingTime	holding time supply air filter (in hour)	R	h (71)	0 (AI)		79

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no.	D/S	group	object name	description	R/W	unit	object type	values	object instance
188	S	filter	tOutFilterETAHoldingTime	holding time extract air filter (in hour)	R	h (71)	0 (AI)		80
189		filter	tOutFilterODAOperationTime	operation time outdoor air filter (in hour)	R	h (71)	0 (AI)		81
190		filter	tOutFilterSUPOperationTime	operation time supply air filter (in hour)	R	h (71)	0 (AI)		82
191		filter	tOutFilterETAOperationTime	operation time extract air filter (in hour)	R	h (71)	0 (AI)		83
192	S	filter	fOutFilterODAPVdp	present value outdoor air filter diff. pressure	R	h (71)	0 (AI)		84
193	S	filter	fOutFilterSUPPVdp	present value supply air filter diff. pressure	R	h (71)	0 (AI)		85
194	S	filter	fOutFilterETAPVdp	present value extract air filter diff. pressure	R	h (71)	0 (AI)		86
195		filter	tOutFilterODAHoldingTime2	holding time second outdoor air filter (in hour)	R	h (71)	0 (AI)		87
196		filter	tOutFilterSUPHoldingTime2	holding time second supply air filter (in hour)	R	h (71)	0 (AI)		88
197		filter	tOutFilterETAHoldingTime2	holding time second extract air filter (in hour)	R	h (71)	0 (AI)		89
198		filter	tOutFilterODAOperationTime2	operation time second outdoor air filter (in hour)	R	h (71)	0 (AI)		90
199		filter	tOutFilterSUPOperationTime2	operation time second supply air filter (in hour)	R	h (71)	0 (AI)		91
200		filter	tOutFilterETAOperationTime2	operation time second extract air filter (in hour)	R	h (71)	0 (AI)		92
201		filter	fOutFilterODAPVdp2	present value second outdoor air filter diff. pressure	R	Pa (53)	0 (AI)		93
202		filter	fOutFilterSUPPVdp2	present value second supply air filter diff. pressure	R	Pa (53)	0 (AI)		94
203		filter	fOutFilterETAPVdp2	present value second extract air filter diff. pressure	R	Pa (53)	0 (AI)		95
204		plate heat exchanger	bOutPlateHexDamperComErr	modbus comm. error with the plate heat exchanger dampe	R		3 (BI)	ACTIVE = ok	571
205		plate heat exchanger	bOutPlateHexDamperComErr2	modbus comm. error with the second plate heat exchanger dampe	R		3 (BI)	ACTIVE = ok	572
206		plate heat exchanger	bOutPlateHexDpComErr	modbus comm. error with the plate heat exchanger diff. pressure sensor	R		3 (BI)	ACTIVE = ok	573
207	S	plate heat exchanger	fOutPlatehexDamperPVPos	current position bypass plate heat exchanger	R	% (98)	0 (AI)		99
208		plate heat exchanger	fOutPlatehexDamperPVPos2	current position second bypass plate heat exchanger	R	% (98)	0 (AI)		100
209	S	plate heat exchanger	fOutPlatehexPVdp	present value plate heat exchanger diff. pressure	R	Pa (53)	0 (AI)		96
210	S	plate heat exchanger	fOutPlatehexDamperCtrlPos	controlled value bypass plate heat exchanger	R	% (98)	0 (AI)		97
211		plate heat exchanger	fOutPlatehexDamperCtrlPos2	controlled value of the second bypass plate heat exchanger	R	% (98)	0 (AI)		98
212		rotary heat exchanger	bOutRotHexInErr	internal error of the heat recovery wheel	R		3 (BI)	ACTIVE = ok	574
213		rotary heat exchanger	bOutRotHexComErr	modbus comm. error with the heat recovery wheel	R		3 (BI)	ACTIVE = ok	575
214	S	rotary heat exchanger	bOutRotHexCtrlRel	controlled value to release the heat recovery wheel	R		3 (BI)	ACTIVE = ok	576
215	S	rotary heat exchanger	fOutRothexCtrl	controlled value heat recovery wheel speed	R	% (98)	0 (AI)		101
216		modbus comm. error	bOutComErrSenHumODA	modbus comm. error with the outdoor air humidity sensor	R		3 (BI)	ACTIVE = ok	577
217		modbus comm. error	bOutComErrSenHumSUP	modbus comm. error with the supply air humidity sensor	R		3 (BI)	ACTIVE = ok	578
218		modbus comm. error	bOutComErrSenHumETA	modbus comm. error with the extract air humidity sensor	R		3 (BI)	ACTIVE = ok	579
219		modbus comm. error	bOutComErrSenHumEHA	modbus comm. error with the exhaust air humidity sensor	R		3 (BI)	ACTIVE = ok	580
220		modbus comm. error	bOutComErrSenTempODA	modbus comm. error with the outdoor air temperature sensor	R		3 (BI)	ACTIVE = ok	581
221		modbus comm. error	bOutComErrSenTempSUP	modbus comm. error with the supply air temperature sensor	R		3 (BI)	ACTIVE = ok	582
222		modbus comm. error	bOutComErrSenTempETA	modbus comm. error with the extract air temperature sensor	R		3 (BI)	ACTIVE = ok	583
223		modbus comm. error	bOutComErrSenTempEHA	modbus comm. error with the exhaust air temperature sensor	R		3 (BI)	ACTIVE = ok	584
224		modbus comm. error	bOutComErrSenDpSUP	modbus comm. error with the supply air pressure sensor	R		3 (BI)	ACTIVE = ok	585
225		modbus comm. error	bOutComErrSenDpETA	modbus comm. error with the extract air pressure sensor	R		3 (BI)	ACTIVE = ok	586

## Data point list Modbus/TCP X-CUBE Control

D: important data points  
S: system specific data points

default BACnet Device ID: 105001

no.	D/S	group	object name	description	R/W	unit	object type	values	object instance
226		modbus comm. error	bOutComErrSenCO2	modbus comm. error with the CO2 sensor	R		3 (BI)	ACTIVE = ok	587
227		modbus comm. error	bOutComErrSenVOC	modbus comm. error with the VOC sensor	R		3 (BI)	ACTIVE = ok	588
228		current operation mode	fOutSPTempSUP	current set point of the supply air temperature	R	°C (62)	0 (AI)		102
229		current operation mode	fOutSPTempETA	current set point of the extract or room air temperature	R	°C (62)	0 (AI)		103
230	S	current operation mode	eOutPVOperationMode	current operation mode of the air handling unit.	R	(95)	0 (AI)	0 = off; 1 = standby; 2 = control; 3 = freeze protection; 4 = deicing; 5 = startup; 6 = shutdown; 7 = manual; 8 = nightpurge; 9 = intermittent Operation; 10 = cooling protection; 11 = fire protection	104
231		rac	bOutKVS2ReleasePump	pump release	R		3 (BI)	ACTIVE = on	599
232		rac	bOutKVS2MsgPumpError	pump error	R		3 (BI)	ACTIVE = alarm	598
233		rac	bOutKVS2BrinePressure1	pressure step 1 triggered	R		3 (BI)	ACTIVE = alarm	589
234		rac	bOutKVS2BrinePressure2	pressure step 2 triggered	R		3 (BI)	ACTIVE = alarm	590
235		rac	bOutKVS2MsgMinTempInletETA	exhaust air heat exchanger is frosting (prio=2)	R		3 (BI)	ACTIVE = alarm	595
236		rac	bOutKVS2MsgFrostFeedCoil	alarm feed coil frosting (prio=3)	R		3 (BI)	ACTIVE = alarm	594
237		rac	bOutKVS2MsgNoRecovery	heat recovery is currently not possible (prio=2)	R		3 (BI)	ACTIVE = alarm	597
238		rac	bOutKVS2MsgNoFeed	feed doesnt have cooling or heating (prio=2)	R		3 (BI)	ACTIVE = alarm	596
239		rac	bOutKVS2MsgBrinePressureLow	brine pressure have to be checked, low pressure (prio=2)	R		3 (BI)	ACTIVE = alarm	593
240		rac	bOutKVS2MsgBrinePressureCritical	critical brine pressure (prio=3)	R		3 (BI)	ACTIVE = alarm	592
241		rac	bOutKVS2MsgAutoPumpOff	auto pump stop (prio=2)	R		3 (BI)	ACTIVE = alarm	591
242		rac	bOutKVS2StateHeatExchangerOperation	state of the operation signal be released	R		3 (BI)	ACTIVE = on	602
243		rac	bOutKVS2StateFastMode	state of the fast cool- or heating mode active	R		3 (BI)	ACTIVE = on	601
244		rac	bOutKVS2StateCoolingFeed	state of the cooling feed feeding is active	R		3 (BI)	ACTIVE = on	600
245		rac	bOutKVS2StateHeatingFeed	state of the heating feed feeding is active	R		3 (BI)	ACTIVE = on	603
246		rac	bOutKVS2ActuatingValueFeedCoolingPu	pump release cooling feed	R		3 (BI)	ACTIVE = on	604
247		rac	bOutKVS2ActuatingValueFeedHeatingPu	pump release heating feed	R		3 (BI)	ACTIVE = on	605
248		rac	bOutKVS2ReleaseColdProvider	release cold provider	R		3 (BI)	ACTIVE = on	606
249		rac	bOutKVS2ReleaseHeatProvider	release heat provider	R		3 (BI)	ACTIVE = on	607
250		rac	fOutKVS2CtrlPump	controlled value pump speed	R	% (98)	0 (AI)		107
251		rac	fOutKVS2CtrlPowerValve	controlled value run around coil power valve	R	% (98)	0 (AI)		106
252		rac	fOutKVS2CtrlFrostProtectionValve	controlled value run around coil frost protection valve	R	% (98)	0 (AI)		105
253		rac	fOutKVS2TempSUPIn	current value inlet temperature of the fresh air heat exchanger	R	°C (62)	0 (AI)		112
254		rac	fOutKVS2TempSUPOut	current value outlet temperature of the fresh air heat exchanger	R	°C (62)	0 (AI)		113
255		rac	fOutKVS2TempETAIn	current value inlet temperature of exhaust air heat exchanger	R	°C (62)	0 (AI)		109

# Data point list Modbus/TCP X-CUBE Control

D: important data points

S: system specific data points

default BACnet Device ID: 105001

no.	D/S	group	object name	description	R/W	unit	object type	values	object instance
256		rac	fOutKVS2TempETAOut	current value return temperature exhaust air heat exchanger	R	°C (62)	0 (AI)		110
257		rac	fOutKVS2TempPreFeed	current value brine temperature	R	°C (62)	0 (AI)		111
258		rac	fOutKVS2BrineVolumeFlow	present value brine volume flow	R	m³/h (135)	0 (AI)		108
259		rac	fOutKVS2ThermalPowerSUP	current value thermal power of the fresh air heat exchanger	R	kW (48)	0 (AI)		114
260		rac	fOutKVS2ThermalPowerETA	current value thermal power of the exhaust air heat exchanger	R	kW (48)	0 (AI)		115
261		rac	fOutKVS2ThermalPowerFeedHeat	current value thermal power of the heating feed	R	kW (48)	0 (AI)		116
262		rac	fOutKVS2ThermalPowerFeedCool	current value thermal power of the cooling feed	R	kW (48)	0 (AI)		117
263		rac	fOutKVS2CtrlFeedCoolingValve	controlled value run around coil cooling feed valve	R	% (98)	0 (AI)		118
264		rac	fOutKVS2CtrlFeedHeatingValve	controlled value run around coil heating feed valve	R	% (98)	0 (AI)		119
265		rac	fOutKVS2TempCoolFeedIn	current value inlet temperature of cooling feed	R	°C (62)	0 (AI)		122
266		rac	fOutKVS2TempHeatFeedOut	current value return temperature of heating feed	R	°C (62)	0 (AI)		123
267		rac	fOutKVS2CtrlDehumCoolerValve	controlled value run around coil dehumidifier cooling valve	R	% (98)	0 (AI)		120
268		rac	fOutKVS2CtrlDehumReheaterValve	controlled value run around coil dehumidifier cooling recovery valve	R	% (98)	0 (AI)		121
269		integrated refrigerating	bOutKMsgSuperHeatingController	error super heating controller	R		3 (BI)	ACTIVE = alarm	611
270		integrated refrigerating	bOutKMsgOilManagement	oil management error	R		3 (BI)	ACTIVE = alarm	608
271		integrated refrigerating	bOutKMsgHighPressure	high pressure error	R		3 (BI)	ACTIVE = alarm	610
272		integrated refrigerating	bOutKMsgLowPressure	low pressure error	R		3 (BI)	ACTIVE = alarm	609
273		integrated refrigerating	bOutKCtrlPWM1	actuating value pwm compressor 1	R		3 (BI)	ACTIVE = on	615
274		integrated refrigerating	bOutKCtrlPWM2	actuating value pwm compressor 2	R		3 (BI)	ACTIVE = on	616
275		integrated refrigerating	bOutKMsgMotorProtection1	motor protection triggered first compressor	R		3 (BI)	ACTIVE = alarm	612
276		integrated refrigerating	bOutKMsgMotorProtection2	motor protection triggered second compressor	R		3 (BI)	ACTIVE = alarm	613
277		integrated refrigerating	bOutKCtrlSoftStarterOn1	actuating value soft starter compressor 1	R		3 (BI)	ACTIVE = on	618
278		integrated refrigerating	bOutKCtrlSoftStarterOn2	actuating value soft starter compressor 2	R		3 (BI)	ACTIVE = on	619
279		integrated refrigerating	bOutKMsgHighTemp	error - high compressor end temperature	R		3 (BI)	ACTIVE = alarm	621
280		integrated refrigerating	bOutKMsgEAPComError	comm. error with the EAP-Modul	R		3 (BI)	ACTIVE = alarm	622
281		fire damper	bOutFireDamperClosed1	contact fire damper 1 closed	R		3 (BI)	ACTIVE = closed	13
282		fire damper	bOutFireDamperClosed2	contact fire damper 2 closed	R		3 (BI)	ACTIVE = closed	14
283		fire damper	bOutFireDamperClosed3	contact fire damper 3 closed	R		3 (BI)	ACTIVE = closed	15
284		fire damper	bOutFireDamperClosed4	contact fire damper 4 closed	R		3 (BI)	ACTIVE = closed	16
285		fire damper	bOutFireDamperClosed5	contact fire damper 5 closed	R		3 (BI)	ACTIVE = closed	17
286		fire damper	bOutFireDamperClosed6	contact fire damper 6 closed	R		3 (BI)	ACTIVE = closed	18
287		fire damper	bOutFireDamperClosed7	contact fire damper 7 closed	R		3 (BI)	ACTIVE = closed	19
288		fire damper	bOutFireDamperClosed8	contact fire damper 8 closed	R		3 (BI)	ACTIVE = closed	20
289		fire damper	bOutFireDamperClosed9	contact fire damper 9 closed	R		3 (BI)	ACTIVE = closed	21
290		fire damper	bOutFireDamperClosed10	contact fire damper 10 closed	R		3 (BI)	ACTIVE = closed	22
291		fire damper	bOutFireDamperClosed11	contact fire damper 11 closed	R		3 (BI)	ACTIVE = closed	23
292		fire damper	bOutFireDamperClosed12	contact fire damper 12 closed	R		3 (BI)	ACTIVE = closed	24
293		fire damper	bOutFireDamperClosed13	contact fire damper 13 closed	R		3 (BI)	ACTIVE = closed	25

## Data point list Modbus/TCP X-CUBE Control

D: important data points

S: system specific data points

default BACnet Device ID: 105001

no.	D/S	group	object name	description	R/W	unit	object type	values	object instance
294		fire damper	bOutFireDamperClosed14	contact fire damper 14 closed	R		3 (BI)	ACTIVE = closed	26
295		fire damper	bOutFireDamperClosed15	contact fire damper 15 closed	R		3 (BI)	ACTIVE = closed	27
296		fire damper	bOutFireDamperClosed16	contact fire damper 16 closed	R		3 (BI)	ACTIVE = closed	28
297		fire damper	bOutFireDamperClosed17	contact fire damper 17 closed	R		3 (BI)	ACTIVE = closed	29
298		fire damper	bOutFireDamperClosed18	contact fire damper 18 closed	R		3 (BI)	ACTIVE = closed	30
299		fire damper	bOutFireDamperClosed19	contact fire damper 19 closed	R		3 (BI)	ACTIVE = closed	31
300		fire damper	bOutFireDamperClosed20	contact fire damper 20 closed	R		3 (BI)	ACTIVE = closed	32
301		fire damper	bOutFireDamperClosed21	contact fire damper 21 closed	R		3 (BI)	ACTIVE = closed	33
302		fire damper	bOutFireDamperClosed22	contact fire damper 22 closed	R		3 (BI)	ACTIVE = closed	34
303		fire damper	bOutFireDamperClosed23	contact fire damper 23 closed	R		3 (BI)	ACTIVE = closed	35
304		fire damper	bOutFireDamperClosed24	contact fire damper 24 closed	R		3 (BI)	ACTIVE = closed	36
305		fire damper	bOutFireDamperClosed25	contact fire damper 25 closed	R		3 (BI)	ACTIVE = closed	37
306		fire damper	bOutFireDamperClosed26	contact fire damper 26 closed	R		3 (BI)	ACTIVE = closed	38
307		fire damper	bOutFireDamperClosed27	contact fire damper 27 closed	R		3 (BI)	ACTIVE = closed	39
308		fire damper	bOutFireDamperClosed28	contact fire damper 28 closed	R		3 (BI)	ACTIVE = closed	40
309		fire damper	bOutFireDamperClosed29	contact fire damper 29 closed	R		3 (BI)	ACTIVE = closed	41
310		fire damper	bOutFireDamperClosed30	contact fire damper 30 closed	R		3 (BI)	ACTIVE = closed	42
311		fire damper	bOutFireDamperClosed31	contact fire damper 31 closed	R		3 (BI)	ACTIVE = closed	43
312		fire damper	bOutFireDamperClosed32	contact fire damper 32 closed	R		3 (BI)	ACTIVE = closed	44
313		fire damper	bOutFireDamperClosed33	contact fire damper 33 closed	R		3 (BI)	ACTIVE = closed	45
314		fire damper	bOutFireDamperClosed34	contact fire damper 34 closed	R		3 (BI)	ACTIVE = closed	46
315		fire damper	bOutFireDamperClosed35	contact fire damper 35 closed	R		3 (BI)	ACTIVE = closed	47
316		fire damper	bOutFireDamperClosed36	contact fire damper 36 closed	R		3 (BI)	ACTIVE = closed	48
317		fire damper	bOutFireDamperClosed37	contact fire damper 37 closed	R		3 (BI)	ACTIVE = closed	49
318		fire damper	bOutFireDamperClosed38	contact fire damper 38 closed	R		3 (BI)	ACTIVE = closed	50
319		fire damper	bOutFireDamperClosed39	contact fire damper 39 closed	R		3 (BI)	ACTIVE = closed	51
320		fire damper	bOutFireDamperClosed40	contact fire damper 40 closed	R		3 (BI)	ACTIVE = closed	52
321		fire damper	bOutFireDamperClosed41	contact fire damper 41 closed	R		3 (BI)	ACTIVE = closed	53
322		fire damper	bOutFireDamperClosed42	contact fire damper 42 closed	R		3 (BI)	ACTIVE = closed	54
323		fire damper	bOutFireDamperClosed43	contact fire damper 43 closed	R		3 (BI)	ACTIVE = closed	55
324		fire damper	bOutFireDamperClosed44	contact fire damper 44 closed	R		3 (BI)	ACTIVE = closed	56
325		fire damper	bOutFireDamperClosed45	contact fire damper 45 closed	R		3 (BI)	ACTIVE = closed	57
326		fire damper	bOutFireDamperClosed46	contact fire damper 46 closed	R		3 (BI)	ACTIVE = closed	58
327		fire damper	bOutFireDamperClosed47	contact fire damper 47 closed	R		3 (BI)	ACTIVE = closed	59
328		fire damper	bOutFireDamperClosed48	contact fire damper 48 closed	R		3 (BI)	ACTIVE = closed	60
329		fire damper	bOutFireDamperClosed49	contact fire damper 49 closed	R		3 (BI)	ACTIVE = closed	61
330		fire damper	bOutFireDamperClosed50	contact fire damper 50 closed	R		3 (BI)	ACTIVE = closed	62
331		fire damper	bOutFireDamperClosed51	contact fire damper 51 closed	R		3 (BI)	ACTIVE = closed	63

## Data point list Modbus/TCP X-CUBE Control

D: important data points  
S: system specific data points

default BACnet Device ID: 105001

no.	D/S	group	object name	description	R/W	unit	object type	values	object instance
332		fire damper	bOutFireDamperClosed52	contact fire damper 52 closed	R		3 (BI)	ACTIVE = closed	64
333		fire damper	bOutFireDamperClosed53	contact fire damper 53 closed	R		3 (BI)	ACTIVE = closed	65
334		fire damper	bOutFireDamperClosed54	contact fire damper 54 closed	R		3 (BI)	ACTIVE = closed	66
335		fire damper	bOutFireDamperClosed55	contact fire damper 55 closed	R		3 (BI)	ACTIVE = closed	67
336		fire damper	bOutFireDamperClosed56	contact fire damper 56 closed	R		3 (BI)	ACTIVE = closed	68
337		fire damper	bOutFireDamperClosed57	contact fire damper 57 closed	R		3 (BI)	ACTIVE = closed	69
338		fire damper	bOutFireDamperClosed58	contact fire damper 58 closed	R		3 (BI)	ACTIVE = closed	70
339		fire damper	bOutFireDamperClosed59	contact fire damper 59 closed	R		3 (BI)	ACTIVE = closed	71
340		fire damper	bOutFireDamperClosed60	contact fire damper 60 closed	R		3 (BI)	ACTIVE = closed	72
341		fire damper	bOutFireDamperClosed61	contact fire damper 61 closed	R		3 (BI)	ACTIVE = closed	73
342		fire damper	bOutFireDamperClosed62	contact fire damper 62 closed	R		3 (BI)	ACTIVE = closed	74
343		fire damper	bOutFireDamperOpened1	contact fire damper 1 Opened	R		3 (BI)	ACTIVE = open	75
344		fire damper	bOutFireDamperOpened2	contact fire damper 2 Opened	R		3 (BI)	ACTIVE = open	76
345		fire damper	bOutFireDamperOpened3	contact fire damper 3 Opened	R		3 (BI)	ACTIVE = open	77
346		fire damper	bOutFireDamperOpened4	contact fire damper 4 Opened	R		3 (BI)	ACTIVE = open	78
347		fire damper	bOutFireDamperOpened5	contact fire damper 5 Opened	R		3 (BI)	ACTIVE = open	79
348		fire damper	bOutFireDamperOpened6	contact fire damper 6 Opened	R		3 (BI)	ACTIVE = open	80
349		fire damper	bOutFireDamperOpened7	contact fire damper 7 Opened	R		3 (BI)	ACTIVE = open	81
350		fire damper	bOutFireDamperOpened8	contact fire damper 8 Opened	R		3 (BI)	ACTIVE = open	82
351		fire damper	bOutFireDamperOpened9	contact fire damper 9 Opened	R		3 (BI)	ACTIVE = open	83
352		fire damper	bOutFireDamperOpened10	contact fire damper 10 Opened	R		3 (BI)	ACTIVE = open	84
353		fire damper	bOutFireDamperOpened11	contact fire damper 11 Opened	R		3 (BI)	ACTIVE = open	85
354		fire damper	bOutFireDamperOpened12	contact fire damper 12 Opened	R		3 (BI)	ACTIVE = open	86
355		fire damper	bOutFireDamperOpened13	contact fire damper 13 Opened	R		3 (BI)	ACTIVE = open	87
356		fire damper	bOutFireDamperOpened14	contact fire damper 14 Opened	R		3 (BI)	ACTIVE = open	88
357		fire damper	bOutFireDamperOpened15	contact fire damper 15 Opened	R		3 (BI)	ACTIVE = open	89
358		fire damper	bOutFireDamperOpened16	contact fire damper 16 Opened	R		3 (BI)	ACTIVE = open	90
359		fire damper	bOutFireDamperOpened17	contact fire damper 17 Opened	R		3 (BI)	ACTIVE = open	91
360		fire damper	bOutFireDamperOpened18	contact fire damper 18 Opened	R		3 (BI)	ACTIVE = open	92
361		fire damper	bOutFireDamperOpened19	contact fire damper 19 Opened	R		3 (BI)	ACTIVE = open	93
362		fire damper	bOutFireDamperOpened20	contact fire damper 20 Opened	R		3 (BI)	ACTIVE = open	94
363		fire damper	bOutFireDamperOpened21	contact fire damper 21 Opened	R		3 (BI)	ACTIVE = open	95
364		fire damper	bOutFireDamperOpened22	contact fire damper 22 Opened	R		3 (BI)	ACTIVE = open	96
365		fire damper	bOutFireDamperOpened23	contact fire damper 23 Opened	R		3 (BI)	ACTIVE = open	97
366		fire damper	bOutFireDamperOpened24	contact fire damper 24 Opened	R		3 (BI)	ACTIVE = open	98
367		fire damper	bOutFireDamperOpened25	contact fire damper 25 Opened	R		3 (BI)	ACTIVE = open	99
368		fire damper	bOutFireDamperOpened26	contact fire damper 26 Opened	R		3 (BI)	ACTIVE = open	100
369		fire damper	bOutFireDamperOpened27	contact fire damper 27 Opened	R		3 (BI)	ACTIVE = open	101

## Data point list Modbus/TCP X-CUBE Control

D: important data points

S: system specific data points

default BACnet Device ID: 105001

no.	D/S	group	object name	description	R/W	unit	object type	values	object instance
370		fire damper	bOutFireDamperOpened28	contact fire damper 28 Opened	R		3 (BI)	ACTIVE = open	102
371		fire damper	bOutFireDamperOpened29	contact fire damper 29 Opened	R		3 (BI)	ACTIVE = open	103
372		fire damper	bOutFireDamperOpened30	contact fire damper 30 Opened	R		3 (BI)	ACTIVE = open	104
373		fire damper	bOutFireDamperOpened31	contact fire damper 31 Opened	R		3 (BI)	ACTIVE = open	105
374		fire damper	bOutFireDamperOpened32	contact fire damper 32 Opened	R		3 (BI)	ACTIVE = open	106
375		fire damper	bOutFireDamperOpened33	contact fire damper 33 Opened	R		3 (BI)	ACTIVE = open	107
376		fire damper	bOutFireDamperOpened34	contact fire damper 34 Opened	R		3 (BI)	ACTIVE = open	108
377		fire damper	bOutFireDamperOpened35	contact fire damper 35 Opened	R		3 (BI)	ACTIVE = open	109
378		fire damper	bOutFireDamperOpened36	contact fire damper 36 Opened	R		3 (BI)	ACTIVE = open	110
379		fire damper	bOutFireDamperOpened37	contact fire damper 37 Opened	R		3 (BI)	ACTIVE = open	111
380		fire damper	bOutFireDamperOpened38	contact fire damper 38 Opened	R		3 (BI)	ACTIVE = open	112
381		fire damper	bOutFireDamperOpened39	contact fire damper 39 Opened	R		3 (BI)	ACTIVE = open	113
382		fire damper	bOutFireDamperOpened40	contact fire damper 40 Opened	R		3 (BI)	ACTIVE = open	114
383		fire damper	bOutFireDamperOpened41	contact fire damper 41 Opened	R		3 (BI)	ACTIVE = open	115
384		fire damper	bOutFireDamperOpened42	contact fire damper 42 Opened	R		3 (BI)	ACTIVE = open	116
385		fire damper	bOutFireDamperOpened43	contact fire damper 43 Opened	R		3 (BI)	ACTIVE = open	117
386		fire damper	bOutFireDamperOpened44	contact fire damper 44 Opened	R		3 (BI)	ACTIVE = open	118
387		fire damper	bOutFireDamperOpened45	contact fire damper 45 Opened	R		3 (BI)	ACTIVE = open	119
388		fire damper	bOutFireDamperOpened46	contact fire damper 46 Opened	R		3 (BI)	ACTIVE = open	120
389		fire damper	bOutFireDamperOpened47	contact fire damper 47 Opened	R		3 (BI)	ACTIVE = open	121
390		fire damper	bOutFireDamperOpened48	contact fire damper 48 Opened	R		3 (BI)	ACTIVE = open	122
391		fire damper	bOutFireDamperOpened49	contact fire damper 49 Opened	R		3 (BI)	ACTIVE = open	123
392		fire damper	bOutFireDamperOpened50	contact fire damper 50 Opened	R		3 (BI)	ACTIVE = open	124
393		fire damper	bOutFireDamperOpened51	contact fire damper 51 Opened	R		3 (BI)	ACTIVE = open	125
394		fire damper	bOutFireDamperOpened52	contact fire damper 52 Opened	R		3 (BI)	ACTIVE = open	126
395		fire damper	bOutFireDamperOpened53	contact fire damper 53 Opened	R		3 (BI)	ACTIVE = open	127
396		fire damper	bOutFireDamperOpened54	contact fire damper 54 Opened	R		3 (BI)	ACTIVE = open	128
397		fire damper	bOutFireDamperOpened55	contact fire damper 55 Opened	R		3 (BI)	ACTIVE = open	129
398		fire damper	bOutFireDamperOpened56	contact fire damper 56 Opened	R		3 (BI)	ACTIVE = open	130
399		fire damper	bOutFireDamperOpened57	contact fire damper 57 Opened	R		3 (BI)	ACTIVE = open	131
400		fire damper	bOutFireDamperOpened58	contact fire damper 58 Opened	R		3 (BI)	ACTIVE = open	132
401		fire damper	bOutFireDamperOpened59	contact fire damper 59 Opened	R		3 (BI)	ACTIVE = open	133
402		fire damper	bOutFireDamperOpened60	contact fire damper 60 Opened	R		3 (BI)	ACTIVE = open	134
403		fire damper	bOutFireDamperOpened61	contact fire damper 61 Opened	R		3 (BI)	ACTIVE = open	135
404		fire damper	bOutFireDamperOpened62	contact fire damper 62 Opened	R		3 (BI)	ACTIVE = open	136
405		fire damper	bOutFireDamperErrClosingRuntime1	Error closing runtime fire damper 1	R		3 (BI)	ACTIVE = ok	137
406		fire damper	bOutFireDamperErrClosingRuntime2	Error closing runtime fire damper 2	R		3 (BI)	ACTIVE = ok	138
407		fire damper	bOutFireDamperErrClosingRuntime3	Error closing runtime fire damper 3	R		3 (BI)	ACTIVE = ok	139

## Data point list Modbus/TCP X-CUBE Control

D: important data points

default BACnet Device ID: 105001

S: system specific data points

no.	D/S	group	object name	description	R/W	unit	object type	values	object instance
408		fire damper	bOutFireDamperErrClosingRuntime4	Error closing runtime fire damper 4	R		3 (BI)	ACTIVE = ok	140
409		fire damper	bOutFireDamperErrClosingRuntime5	Error closing runtime fire damper 5	R		3 (BI)	ACTIVE = ok	141
410		fire damper	bOutFireDamperErrClosingRuntime6	Error closing runtime fire damper 6	R		3 (BI)	ACTIVE = ok	142
411		fire damper	bOutFireDamperErrClosingRuntime7	Error closing runtime fire damper 7	R		3 (BI)	ACTIVE = ok	143
412		fire damper	bOutFireDamperErrClosingRuntime8	Error closing runtime fire damper 8	R		3 (BI)	ACTIVE = ok	144
413		fire damper	bOutFireDamperErrClosingRuntime9	Error closing runtime fire damper 9	R		3 (BI)	ACTIVE = ok	145
414		fire damper	bOutFireDamperErrClosingRuntime10	Error closing runtime fire damper 10	R		3 (BI)	ACTIVE = ok	146
415		fire damper	bOutFireDamperErrClosingRuntime11	Error closing runtime fire damper 11	R		3 (BI)	ACTIVE = ok	147
416		fire damper	bOutFireDamperErrClosingRuntime12	Error closing runtime fire damper 12	R		3 (BI)	ACTIVE = ok	148
417		fire damper	bOutFireDamperErrClosingRuntime13	Error closing runtime fire damper 13	R		3 (BI)	ACTIVE = ok	149
418		fire damper	bOutFireDamperErrClosingRuntime14	Error closing runtime fire damper 14	R		3 (BI)	ACTIVE = ok	150
419		fire damper	bOutFireDamperErrClosingRuntime15	Error closing runtime fire damper 15	R		3 (BI)	ACTIVE = ok	151
420		fire damper	bOutFireDamperErrClosingRuntime16	Error closing runtime fire damper 16	R		3 (BI)	ACTIVE = ok	152
421		fire damper	bOutFireDamperErrClosingRuntime17	Error closing runtime fire damper 17	R		3 (BI)	ACTIVE = ok	153
422		fire damper	bOutFireDamperErrClosingRuntime18	Error closing runtime fire damper 18	R		3 (BI)	ACTIVE = ok	154
423		fire damper	bOutFireDamperErrClosingRuntime19	Error closing runtime fire damper 19	R		3 (BI)	ACTIVE = ok	155
424		fire damper	bOutFireDamperErrClosingRuntime20	Error closing runtime fire damper 20	R		3 (BI)	ACTIVE = ok	156
425		fire damper	bOutFireDamperErrClosingRuntime21	Error closing runtime fire damper 21	R		3 (BI)	ACTIVE = ok	157
426		fire damper	bOutFireDamperErrClosingRuntime22	Error closing runtime fire damper 22	R		3 (BI)	ACTIVE = ok	158
427		fire damper	bOutFireDamperErrClosingRuntime23	Error closing runtime fire damper 23	R		3 (BI)	ACTIVE = ok	159
428		fire damper	bOutFireDamperErrClosingRuntime24	Error closing runtime fire damper 24	R		3 (BI)	ACTIVE = ok	160
429		fire damper	bOutFireDamperErrClosingRuntime25	Error closing runtime fire damper 25	R		3 (BI)	ACTIVE = ok	161
430		fire damper	bOutFireDamperErrClosingRuntime26	Error closing runtime fire damper 26	R		3 (BI)	ACTIVE = ok	162
431		fire damper	bOutFireDamperErrClosingRuntime27	Error closing runtime fire damper 27	R		3 (BI)	ACTIVE = ok	163
432		fire damper	bOutFireDamperErrClosingRuntime28	Error closing runtime fire damper 28	R		3 (BI)	ACTIVE = ok	164
433		fire damper	bOutFireDamperErrClosingRuntime29	Error closing runtime fire damper 29	R		3 (BI)	ACTIVE = ok	165
434		fire damper	bOutFireDamperErrClosingRuntime30	Error closing runtime fire damper 30	R		3 (BI)	ACTIVE = ok	166
435		fire damper	bOutFireDamperErrClosingRuntime31	Error closing runtime fire damper 31	R		3 (BI)	ACTIVE = ok	167
436		fire damper	bOutFireDamperErrClosingRuntime32	Error closing runtime fire damper 32	R		3 (BI)	ACTIVE = ok	168
437		fire damper	bOutFireDamperErrClosingRuntime33	Error closing runtime fire damper 33	R		3 (BI)	ACTIVE = ok	169
438		fire damper	bOutFireDamperErrClosingRuntime34	Error closing runtime fire damper 34	R		3 (BI)	ACTIVE = ok	170
439		fire damper	bOutFireDamperErrClosingRuntime35	Error closing runtime fire damper 35	R		3 (BI)	ACTIVE = ok	171
440		fire damper	bOutFireDamperErrClosingRuntime36	Error closing runtime fire damper 36	R		3 (BI)	ACTIVE = ok	172
441		fire damper	bOutFireDamperErrClosingRuntime37	Error closing runtime fire damper 37	R		3 (BI)	ACTIVE = ok	173
442		fire damper	bOutFireDamperErrClosingRuntime38	Error closing runtime fire damper 38	R		3 (BI)	ACTIVE = ok	174
443		fire damper	bOutFireDamperErrClosingRuntime39	Error closing runtime fire damper 39	R		3 (BI)	ACTIVE = ok	175
444		fire damper	bOutFireDamperErrClosingRuntime40	Error closing runtime fire damper 40	R		3 (BI)	ACTIVE = ok	176
445		fire damper	bOutFireDamperErrClosingRuntime41	Error closing runtime fire damper 41	R		3 (BI)	ACTIVE = ok	177

## Data point list Modbus/TCP X-CUBE Control

D: important data points

S: system specific data points

default BACnet Device ID: 105001

no.	D/S	group	object name	description	R/W	unit	object type	values	object instance
446		fire damper	bOutFireDamperErrClosingRuntime42	Error closing runtime fire damper 42	R		3 (BI)	ACTIVE = ok	178
447		fire damper	bOutFireDamperErrClosingRuntime43	Error closing runtime fire damper 43	R		3 (BI)	ACTIVE = ok	179
448		fire damper	bOutFireDamperErrClosingRuntime44	Error closing runtime fire damper 44	R		3 (BI)	ACTIVE = ok	180
449		fire damper	bOutFireDamperErrClosingRuntime45	Error closing runtime fire damper 45	R		3 (BI)	ACTIVE = ok	181
450		fire damper	bOutFireDamperErrClosingRuntime46	Error closing runtime fire damper 46	R		3 (BI)	ACTIVE = ok	182
451		fire damper	bOutFireDamperErrClosingRuntime47	Error closing runtime fire damper 47	R		3 (BI)	ACTIVE = ok	183
452		fire damper	bOutFireDamperErrClosingRuntime48	Error closing runtime fire damper 48	R		3 (BI)	ACTIVE = ok	184
453		fire damper	bOutFireDamperErrClosingRuntime49	Error closing runtime fire damper 49	R		3 (BI)	ACTIVE = ok	185
454		fire damper	bOutFireDamperErrClosingRuntime50	Error closing runtime fire damper 50	R		3 (BI)	ACTIVE = ok	186
455		fire damper	bOutFireDamperErrClosingRuntime51	Error closing runtime fire damper 51	R		3 (BI)	ACTIVE = ok	187
456		fire damper	bOutFireDamperErrClosingRuntime52	Error closing runtime fire damper 52	R		3 (BI)	ACTIVE = ok	188
457		fire damper	bOutFireDamperErrClosingRuntime53	Error closing runtime fire damper 53	R		3 (BI)	ACTIVE = ok	189
458		fire damper	bOutFireDamperErrClosingRuntime54	Error closing runtime fire damper 54	R		3 (BI)	ACTIVE = ok	190
459		fire damper	bOutFireDamperErrClosingRuntime55	Error closing runtime fire damper 55	R		3 (BI)	ACTIVE = ok	191
460		fire damper	bOutFireDamperErrClosingRuntime56	Error closing runtime fire damper 56	R		3 (BI)	ACTIVE = ok	192
461		fire damper	bOutFireDamperErrClosingRuntime57	Error closing runtime fire damper 57	R		3 (BI)	ACTIVE = ok	193
462		fire damper	bOutFireDamperErrClosingRuntime58	Error closing runtime fire damper 58	R		3 (BI)	ACTIVE = ok	194
463		fire damper	bOutFireDamperErrClosingRuntime59	Error closing runtime fire damper 59	R		3 (BI)	ACTIVE = ok	195
464		fire damper	bOutFireDamperErrClosingRuntime60	Error closing runtime fire damper 60	R		3 (BI)	ACTIVE = ok	196
465		fire damper	bOutFireDamperErrClosingRuntime61	Error closing runtime fire damper 61	R		3 (BI)	ACTIVE = ok	197
466		fire damper	bOutFireDamperErrClosingRuntime62	Error closing runtime fire damper 62	R		3 (BI)	ACTIVE = ok	198
467		fire damper	bOutFireDamperErrOpeningRuntime1	Error Opening runtime fire damper 1	R		3 (BI)	ACTIVE = ok	199
468		fire damper	bOutFireDamperErrOpeningRuntime2	Error Opening runtime fire damper 2	R		3 (BI)	ACTIVE = ok	200
469		fire damper	bOutFireDamperErrOpeningRuntime3	Error Opening runtime fire damper 3	R		3 (BI)	ACTIVE = ok	201
470		fire damper	bOutFireDamperErrOpeningRuntime4	Error Opening runtime fire damper 4	R		3 (BI)	ACTIVE = ok	202
471		fire damper	bOutFireDamperErrOpeningRuntime5	Error Opening runtime fire damper 5	R		3 (BI)	ACTIVE = ok	203
472		fire damper	bOutFireDamperErrOpeningRuntime6	Error Opening runtime fire damper 6	R		3 (BI)	ACTIVE = ok	204
473		fire damper	bOutFireDamperErrOpeningRuntime7	Error Opening runtime fire damper 7	R		3 (BI)	ACTIVE = ok	205
474		fire damper	bOutFireDamperErrOpeningRuntime8	Error Opening runtime fire damper 8	R		3 (BI)	ACTIVE = ok	206
475		fire damper	bOutFireDamperErrOpeningRuntime9	Error Opening runtime fire damper 9	R		3 (BI)	ACTIVE = ok	207
476		fire damper	bOutFireDamperErrOpeningRuntime10	Error Opening runtime fire damper 10	R		3 (BI)	ACTIVE = ok	208
477		fire damper	bOutFireDamperErrOpeningRuntime11	Error Opening runtime fire damper 11	R		3 (BI)	ACTIVE = ok	209
478		fire damper	bOutFireDamperErrOpeningRuntime12	Error Opening runtime fire damper 12	R		3 (BI)	ACTIVE = ok	210
479		fire damper	bOutFireDamperErrOpeningRuntime13	Error Opening runtime fire damper 13	R		3 (BI)	ACTIVE = ok	211
480		fire damper	bOutFireDamperErrOpeningRuntime14	Error Opening runtime fire damper 14	R		3 (BI)	ACTIVE = ok	212
481		fire damper	bOutFireDamperErrOpeningRuntime15	Error Opening runtime fire damper 15	R		3 (BI)	ACTIVE = ok	213
482		fire damper	bOutFireDamperErrOpeningRuntime16	Error Opening runtime fire damper 16	R		3 (BI)	ACTIVE = ok	214
483		fire damper	bOutFireDamperErrOpeningRuntime17	Error Opening runtime fire damper 17	R		3 (BI)	ACTIVE = ok	215

## Data point list Modbus/TCP X-CUBE Control

D: important data points

S: system specific data points

default BACnet Device ID: 105001

no.	D/S	group	object name	description	R/W	unit	object type	values	object instance
484		fire damper	bOutFireDamperErrOpeningRuntime18	Error Opening runtime fire damper 18	R		3 (BI)	ACTIVE = ok	216
485		fire damper	bOutFireDamperErrOpeningRuntime19	Error Opening runtime fire damper 19	R		3 (BI)	ACTIVE = ok	217
486		fire damper	bOutFireDamperErrOpeningRuntime20	Error Opening runtime fire damper 20	R		3 (BI)	ACTIVE = ok	218
487		fire damper	bOutFireDamperErrOpeningRuntime21	Error Opening runtime fire damper 21	R		3 (BI)	ACTIVE = ok	219
488		fire damper	bOutFireDamperErrOpeningRuntime22	Error Opening runtime fire damper 22	R		3 (BI)	ACTIVE = ok	220
489		fire damper	bOutFireDamperErrOpeningRuntime23	Error Opening runtime fire damper 23	R		3 (BI)	ACTIVE = ok	221
490		fire damper	bOutFireDamperErrOpeningRuntime24	Error Opening runtime fire damper 24	R		3 (BI)	ACTIVE = ok	222
491		fire damper	bOutFireDamperErrOpeningRuntime25	Error Opening runtime fire damper 25	R		3 (BI)	ACTIVE = ok	223
492		fire damper	bOutFireDamperErrOpeningRuntime26	Error Opening runtime fire damper 26	R		3 (BI)	ACTIVE = ok	224
493		fire damper	bOutFireDamperErrOpeningRuntime27	Error Opening runtime fire damper 27	R		3 (BI)	ACTIVE = ok	225
494		fire damper	bOutFireDamperErrOpeningRuntime28	Error Opening runtime fire damper 28	R		3 (BI)	ACTIVE = ok	226
495		fire damper	bOutFireDamperErrOpeningRuntime29	Error Opening runtime fire damper 29	R		3 (BI)	ACTIVE = ok	227
496		fire damper	bOutFireDamperErrOpeningRuntime30	Error Opening runtime fire damper 30	R		3 (BI)	ACTIVE = ok	228
497		fire damper	bOutFireDamperErrOpeningRuntime31	Error Opening runtime fire damper 31	R		3 (BI)	ACTIVE = ok	229
498		fire damper	bOutFireDamperErrOpeningRuntime32	Error Opening runtime fire damper 32	R		3 (BI)	ACTIVE = ok	230
499		fire damper	bOutFireDamperErrOpeningRuntime33	Error Opening runtime fire damper 33	R		3 (BI)	ACTIVE = ok	231
500		fire damper	bOutFireDamperErrOpeningRuntime34	Error Opening runtime fire damper 34	R		3 (BI)	ACTIVE = ok	232
501		fire damper	bOutFireDamperErrOpeningRuntime35	Error Opening runtime fire damper 35	R		3 (BI)	ACTIVE = ok	233
502		fire damper	bOutFireDamperErrOpeningRuntime36	Error Opening runtime fire damper 36	R		3 (BI)	ACTIVE = ok	234
503		fire damper	bOutFireDamperErrOpeningRuntime37	Error Opening runtime fire damper 37	R		3 (BI)	ACTIVE = ok	235
504		fire damper	bOutFireDamperErrOpeningRuntime38	Error Opening runtime fire damper 38	R		3 (BI)	ACTIVE = ok	236
505		fire damper	bOutFireDamperErrOpeningRuntime39	Error Opening runtime fire damper 39	R		3 (BI)	ACTIVE = ok	237
506		fire damper	bOutFireDamperErrOpeningRuntime40	Error Opening runtime fire damper 40	R		3 (BI)	ACTIVE = ok	238
507		fire damper	bOutFireDamperErrOpeningRuntime41	Error Opening runtime fire damper 41	R		3 (BI)	ACTIVE = ok	239
508		fire damper	bOutFireDamperErrOpeningRuntime42	Error Opening runtime fire damper 42	R		3 (BI)	ACTIVE = ok	240
509		fire damper	bOutFireDamperErrOpeningRuntime43	Error Opening runtime fire damper 43	R		3 (BI)	ACTIVE = ok	241
510		fire damper	bOutFireDamperErrOpeningRuntime44	Error Opening runtime fire damper 44	R		3 (BI)	ACTIVE = ok	242
511		fire damper	bOutFireDamperErrOpeningRuntime45	Error Opening runtime fire damper 45	R		3 (BI)	ACTIVE = ok	243
512		fire damper	bOutFireDamperErrOpeningRuntime46	Error Opening runtime fire damper 46	R		3 (BI)	ACTIVE = ok	244
513		fire damper	bOutFireDamperErrOpeningRuntime47	Error Opening runtime fire damper 47	R		3 (BI)	ACTIVE = ok	245
514		fire damper	bOutFireDamperErrOpeningRuntime48	Error Opening runtime fire damper 48	R		3 (BI)	ACTIVE = ok	246
515		fire damper	bOutFireDamperErrOpeningRuntime49	Error Opening runtime fire damper 49	R		3 (BI)	ACTIVE = ok	247
516		fire damper	bOutFireDamperErrOpeningRuntime50	Error Opening runtime fire damper 50	R		3 (BI)	ACTIVE = ok	248
517		fire damper	bOutFireDamperErrOpeningRuntime51	Error Opening runtime fire damper 51	R		3 (BI)	ACTIVE = ok	249
518		fire damper	bOutFireDamperErrOpeningRuntime52	Error Opening runtime fire damper 52	R		3 (BI)	ACTIVE = ok	250
519		fire damper	bOutFireDamperErrOpeningRuntime53	Error Opening runtime fire damper 53	R		3 (BI)	ACTIVE = ok	251
520		fire damper	bOutFireDamperErrOpeningRuntime54	Error Opening runtime fire damper 54	R		3 (BI)	ACTIVE = ok	252
521		fire damper	bOutFireDamperErrOpeningRuntime55	Error Opening runtime fire damper 55	R		3 (BI)	ACTIVE = ok	253

## Data point list Modbus/TCP X-CUBE Control

D: important data points

S: system specific data points

default BACnet Device ID: 105001

no.	D/S	group	object name	description	R/W	unit	object type	values	object instance
522		fire damper	bOutFireDamperErrOpeningRuntime56	Error Opening runtime fire damper 56	R		3 (BI)	ACTIVE = ok	254
523		fire damper	bOutFireDamperErrOpeningRuntime57	Error Opening runtime fire damper 57	R		3 (BI)	ACTIVE = ok	255
524		fire damper	bOutFireDamperErrOpeningRuntime58	Error Opening runtime fire damper 58	R		3 (BI)	ACTIVE = ok	256
525		fire damper	bOutFireDamperErrOpeningRuntime59	Error Opening runtime fire damper 59	R		3 (BI)	ACTIVE = ok	257
526		fire damper	bOutFireDamperErrOpeningRuntime60	Error Opening runtime fire damper 60	R		3 (BI)	ACTIVE = ok	258
527		fire damper	bOutFireDamperErrOpeningRuntime61	Error Opening runtime fire damper 61	R		3 (BI)	ACTIVE = ok	259
528		fire damper	bOutFireDamperErrOpeningRuntime62	Error Opening runtime fire damper 62	R		3 (BI)	ACTIVE = ok	260
529		fire damper	bOutFireDamperErrPosIndicator1	Error end switch fire damper 1	R		3 (BI)	ACTIVE = ok	261
530		fire damper	bOutFireDamperErrPosIndicator2	Error end switch fire damper 2	R		3 (BI)	ACTIVE = ok	262
531		fire damper	bOutFireDamperErrPosIndicator3	Error end switch fire damper 3	R		3 (BI)	ACTIVE = ok	263
532		fire damper	bOutFireDamperErrPosIndicator4	Error end switch fire damper 4	R		3 (BI)	ACTIVE = ok	264
533		fire damper	bOutFireDamperErrPosIndicator5	Error end switch fire damper 5	R		3 (BI)	ACTIVE = ok	265
534		fire damper	bOutFireDamperErrPosIndicator6	Error end switch fire damper 6	R		3 (BI)	ACTIVE = ok	266
535		fire damper	bOutFireDamperErrPosIndicator7	Error end switch fire damper 7	R		3 (BI)	ACTIVE = ok	267
536		fire damper	bOutFireDamperErrPosIndicator8	Error end switch fire damper 8	R		3 (BI)	ACTIVE = ok	268
537		fire damper	bOutFireDamperErrPosIndicator9	Error end switch fire damper 9	R		3 (BI)	ACTIVE = ok	269
538		fire damper	bOutFireDamperErrPosIndicator10	Error end switch fire damper 10	R		3 (BI)	ACTIVE = ok	270
539		fire damper	bOutFireDamperErrPosIndicator11	Error end switch fire damper 11	R		3 (BI)	ACTIVE = ok	271
540		fire damper	bOutFireDamperErrPosIndicator12	Error end switch fire damper 12	R		3 (BI)	ACTIVE = ok	272
541		fire damper	bOutFireDamperErrPosIndicator13	Error end switch fire damper 13	R		3 (BI)	ACTIVE = ok	273
542		fire damper	bOutFireDamperErrPosIndicator14	Error end switch fire damper 14	R		3 (BI)	ACTIVE = ok	274
543		fire damper	bOutFireDamperErrPosIndicator15	Error end switch fire damper 15	R		3 (BI)	ACTIVE = ok	275
544		fire damper	bOutFireDamperErrPosIndicator16	Error end switch fire damper 16	R		3 (BI)	ACTIVE = ok	276
545		fire damper	bOutFireDamperErrPosIndicator17	Error end switch fire damper 17	R		3 (BI)	ACTIVE = ok	277
546		fire damper	bOutFireDamperErrPosIndicator18	Error end switch fire damper 18	R		3 (BI)	ACTIVE = ok	278
547		fire damper	bOutFireDamperErrPosIndicator19	Error end switch fire damper 19	R		3 (BI)	ACTIVE = ok	279
548		fire damper	bOutFireDamperErrPosIndicator20	Error end switch fire damper 20	R		3 (BI)	ACTIVE = ok	280
549		fire damper	bOutFireDamperErrPosIndicator21	Error end switch fire damper 21	R		3 (BI)	ACTIVE = ok	281
550		fire damper	bOutFireDamperErrPosIndicator22	Error end switch fire damper 22	R		3 (BI)	ACTIVE = ok	282
551		fire damper	bOutFireDamperErrPosIndicator23	Error end switch fire damper 23	R		3 (BI)	ACTIVE = ok	283
552		fire damper	bOutFireDamperErrPosIndicator24	Error end switch fire damper 24	R		3 (BI)	ACTIVE = ok	284
553		fire damper	bOutFireDamperErrPosIndicator25	Error end switch fire damper 25	R		3 (BI)	ACTIVE = ok	285
554		fire damper	bOutFireDamperErrPosIndicator26	Error end switch fire damper 26	R		3 (BI)	ACTIVE = ok	286
555		fire damper	bOutFireDamperErrPosIndicator27	Error end switch fire damper 27	R		3 (BI)	ACTIVE = ok	287
556		fire damper	bOutFireDamperErrPosIndicator28	Error end switch fire damper 28	R		3 (BI)	ACTIVE = ok	288
557		fire damper	bOutFireDamperErrPosIndicator29	Error end switch fire damper 29	R		3 (BI)	ACTIVE = ok	289
558		fire damper	bOutFireDamperErrPosIndicator30	Error end switch fire damper 30	R		3 (BI)	ACTIVE = ok	290
559		fire damper	bOutFireDamperErrPosIndicator31	Error end switch fire damper 31	R		3 (BI)	ACTIVE = ok	291

## Data point list Modbus/TCP X-CUBE Control

D: important data points

default BACnet Device ID: 105001

S: system specific data points

no.	D/S	group	object name	description	R/W	unit	object type	values	object instance
560		fire damper	bOutFireDamperErrPosIndicator32	Error end switch fire damper 32	R		3 (BI)	ACTIVE = ok	292
561		fire damper	bOutFireDamperErrPosIndicator33	Error end switch fire damper 33	R		3 (BI)	ACTIVE = ok	293
562		fire damper	bOutFireDamperErrPosIndicator34	Error end switch fire damper 34	R		3 (BI)	ACTIVE = ok	294
563		fire damper	bOutFireDamperErrPosIndicator35	Error end switch fire damper 35	R		3 (BI)	ACTIVE = ok	295
564		fire damper	bOutFireDamperErrPosIndicator36	Error end switch fire damper 36	R		3 (BI)	ACTIVE = ok	296
565		fire damper	bOutFireDamperErrPosIndicator37	Error end switch fire damper 37	R		3 (BI)	ACTIVE = ok	297
566		fire damper	bOutFireDamperErrPosIndicator38	Error end switch fire damper 38	R		3 (BI)	ACTIVE = ok	298
567		fire damper	bOutFireDamperErrPosIndicator39	Error end switch fire damper 39	R		3 (BI)	ACTIVE = ok	299
568		fire damper	bOutFireDamperErrPosIndicator40	Error end switch fire damper 40	R		3 (BI)	ACTIVE = ok	300
569		fire damper	bOutFireDamperErrPosIndicator41	Error end switch fire damper 41	R		3 (BI)	ACTIVE = ok	301
570		fire damper	bOutFireDamperErrPosIndicator42	Error end switch fire damper 42	R		3 (BI)	ACTIVE = ok	302
571		fire damper	bOutFireDamperErrPosIndicator43	Error end switch fire damper 43	R		3 (BI)	ACTIVE = ok	303
572		fire damper	bOutFireDamperErrPosIndicator44	Error end switch fire damper 44	R		3 (BI)	ACTIVE = ok	304
573		fire damper	bOutFireDamperErrPosIndicator45	Error end switch fire damper 45	R		3 (BI)	ACTIVE = ok	305
574		fire damper	bOutFireDamperErrPosIndicator46	Error end switch fire damper 46	R		3 (BI)	ACTIVE = ok	306
575		fire damper	bOutFireDamperErrPosIndicator47	Error end switch fire damper 47	R		3 (BI)	ACTIVE = ok	307
576		fire damper	bOutFireDamperErrPosIndicator48	Error end switch fire damper 48	R		3 (BI)	ACTIVE = ok	308
577		fire damper	bOutFireDamperErrPosIndicator49	Error end switch fire damper 49	R		3 (BI)	ACTIVE = ok	309
578		fire damper	bOutFireDamperErrPosIndicator50	Error end switch fire damper 50	R		3 (BI)	ACTIVE = ok	310
579		fire damper	bOutFireDamperErrPosIndicator51	Error end switch fire damper 51	R		3 (BI)	ACTIVE = ok	311
580		fire damper	bOutFireDamperErrPosIndicator52	Error end switch fire damper 52	R		3 (BI)	ACTIVE = ok	312
581		fire damper	bOutFireDamperErrPosIndicator53	Error end switch fire damper 53	R		3 (BI)	ACTIVE = ok	313
582		fire damper	bOutFireDamperErrPosIndicator54	Error end switch fire damper 54	R		3 (BI)	ACTIVE = ok	314
583		fire damper	bOutFireDamperErrPosIndicator55	Error end switch fire damper 55	R		3 (BI)	ACTIVE = ok	315
584		fire damper	bOutFireDamperErrPosIndicator56	Error end switch fire damper 56	R		3 (BI)	ACTIVE = ok	316
585		fire damper	bOutFireDamperErrPosIndicator57	Error end switch fire damper 57	R		3 (BI)	ACTIVE = ok	317
586		fire damper	bOutFireDamperErrPosIndicator58	Error end switch fire damper 58	R		3 (BI)	ACTIVE = ok	318
587		fire damper	bOutFireDamperErrPosIndicator59	Error end switch fire damper 59	R		3 (BI)	ACTIVE = ok	319
588		fire damper	bOutFireDamperErrPosIndicator60	Error end switch fire damper 60	R		3 (BI)	ACTIVE = ok	320
589		fire damper	bOutFireDamperErrPosIndicator61	Error end switch fire damper 61	R		3 (BI)	ACTIVE = ok	321
590		fire damper	bOutFireDamperErrPosIndicator62	Error end switch fire damper 62	R		3 (BI)	ACTIVE = ok	322
591		fire damper	bOutFireDamperErr1	Error triggered fire damper 1	R		3 (BI)	ACTIVE = ok	323
592		fire damper	bOutFireDamperErr2	Error triggered fire damper 2	R		3 (BI)	ACTIVE = ok	324
593		fire damper	bOutFireDamperErr3	Error triggered fire damper 3	R		3 (BI)	ACTIVE = ok	325
594		fire damper	bOutFireDamperErr4	Error triggered fire damper 4	R		3 (BI)	ACTIVE = ok	326
595		fire damper	bOutFireDamperErr5	Error triggered fire damper 5	R		3 (BI)	ACTIVE = ok	327
596		fire damper	bOutFireDamperErr6	Error triggered fire damper 6	R		3 (BI)	ACTIVE = ok	328
597		fire damper	bOutFireDamperErr7	Error triggered fire damper 7	R		3 (BI)	ACTIVE = ok	329

## Data point list Modbus/TCP X-CUBE Control

D: important data points

S: system specific data points

default BACnet Device ID: 105001

no.	D/S	group	object name	description	R/W	unit	object type	values	object instance
598		fire damper	bOutFireDamperErr8	Error triggered fire damper 8	R		3 (BI)	ACTIVE = ok	330
599		fire damper	bOutFireDamperErr9	Error triggered fire damper 9	R		3 (BI)	ACTIVE = ok	331
600		fire damper	bOutFireDamperErr10	Error triggered fire damper 10	R		3 (BI)	ACTIVE = ok	332
601		fire damper	bOutFireDamperErr11	Error triggered fire damper 11	R		3 (BI)	ACTIVE = ok	333
602		fire damper	bOutFireDamperErr12	Error triggered fire damper 12	R		3 (BI)	ACTIVE = ok	334
603		fire damper	bOutFireDamperErr13	Error triggered fire damper 13	R		3 (BI)	ACTIVE = ok	335
604		fire damper	bOutFireDamperErr14	Error triggered fire damper 14	R		3 (BI)	ACTIVE = ok	336
605		fire damper	bOutFireDamperErr15	Error triggered fire damper 15	R		3 (BI)	ACTIVE = ok	337
606		fire damper	bOutFireDamperErr16	Error triggered fire damper 16	R		3 (BI)	ACTIVE = ok	338
607		fire damper	bOutFireDamperErr17	Error triggered fire damper 17	R		3 (BI)	ACTIVE = ok	339
608		fire damper	bOutFireDamperErr18	Error triggered fire damper 18	R		3 (BI)	ACTIVE = ok	340
609		fire damper	bOutFireDamperErr19	Error triggered fire damper 19	R		3 (BI)	ACTIVE = ok	341
610		fire damper	bOutFireDamperErr20	Error triggered fire damper 20	R		3 (BI)	ACTIVE = ok	342
611		fire damper	bOutFireDamperErr21	Error triggered fire damper 21	R		3 (BI)	ACTIVE = ok	343
612		fire damper	bOutFireDamperErr22	Error triggered fire damper 22	R		3 (BI)	ACTIVE = ok	344
613		fire damper	bOutFireDamperErr23	Error triggered fire damper 23	R		3 (BI)	ACTIVE = ok	345
614		fire damper	bOutFireDamperErr24	Error triggered fire damper 24	R		3 (BI)	ACTIVE = ok	346
615		fire damper	bOutFireDamperErr25	Error triggered fire damper 25	R		3 (BI)	ACTIVE = ok	347
616		fire damper	bOutFireDamperErr26	Error triggered fire damper 26	R		3 (BI)	ACTIVE = ok	348
617		fire damper	bOutFireDamperErr27	Error triggered fire damper 27	R		3 (BI)	ACTIVE = ok	349
618		fire damper	bOutFireDamperErr28	Error triggered fire damper 28	R		3 (BI)	ACTIVE = ok	350
619		fire damper	bOutFireDamperErr29	Error triggered fire damper 29	R		3 (BI)	ACTIVE = ok	351
620		fire damper	bOutFireDamperErr30	Error triggered fire damper 30	R		3 (BI)	ACTIVE = ok	352
621		fire damper	bOutFireDamperErr31	Error triggered fire damper 31	R		3 (BI)	ACTIVE = ok	353
622		fire damper	bOutFireDamperErr32	Error triggered fire damper 32	R		3 (BI)	ACTIVE = ok	354
623		fire damper	bOutFireDamperErr33	Error triggered fire damper 33	R		3 (BI)	ACTIVE = ok	355
624		fire damper	bOutFireDamperErr34	Error triggered fire damper 34	R		3 (BI)	ACTIVE = ok	356
625		fire damper	bOutFireDamperErr35	Error triggered fire damper 35	R		3 (BI)	ACTIVE = ok	357
626		fire damper	bOutFireDamperErr36	Error triggered fire damper 36	R		3 (BI)	ACTIVE = ok	358
627		fire damper	bOutFireDamperErr37	Error triggered fire damper 37	R		3 (BI)	ACTIVE = ok	359
628		fire damper	bOutFireDamperErr38	Error triggered fire damper 38	R		3 (BI)	ACTIVE = ok	360
629		fire damper	bOutFireDamperErr39	Error triggered fire damper 39	R		3 (BI)	ACTIVE = ok	361
630		fire damper	bOutFireDamperErr40	Error triggered fire damper 40	R		3 (BI)	ACTIVE = ok	362
631		fire damper	bOutFireDamperErr41	Error triggered fire damper 41	R		3 (BI)	ACTIVE = ok	363
632		fire damper	bOutFireDamperErr42	Error triggered fire damper 42	R		3 (BI)	ACTIVE = ok	364
633		fire damper	bOutFireDamperErr43	Error triggered fire damper 43	R		3 (BI)	ACTIVE = ok	365
634		fire damper	bOutFireDamperErr44	Error triggered fire damper 44	R		3 (BI)	ACTIVE = ok	366
635		fire damper	bOutFireDamperErr45	Error triggered fire damper 45	R		3 (BI)	ACTIVE = ok	367

## Data point list Modbus/TCP X-CUBE Control

D: important data points

default BACnet Device ID: 105001

S: system specific data points

no.	D/S	group	object name	description	R/W	unit	object type	values	object instance
636		fire damper	bOutFireDamperErr46	Error triggered fire damper 46	R		3 (BI)	ACTIVE = ok	368
637		fire damper	bOutFireDamperErr47	Error triggered fire damper 47	R		3 (BI)	ACTIVE = ok	369
638		fire damper	bOutFireDamperErr48	Error triggered fire damper 48	R		3 (BI)	ACTIVE = ok	370
639		fire damper	bOutFireDamperErr49	Error triggered fire damper 49	R		3 (BI)	ACTIVE = ok	371
640		fire damper	bOutFireDamperErr50	Error triggered fire damper 50	R		3 (BI)	ACTIVE = ok	372
641		fire damper	bOutFireDamperErr51	Error triggered fire damper 51	R		3 (BI)	ACTIVE = ok	373
642		fire damper	bOutFireDamperErr52	Error triggered fire damper 52	R		3 (BI)	ACTIVE = ok	374
643		fire damper	bOutFireDamperErr53	Error triggered fire damper 53	R		3 (BI)	ACTIVE = ok	375
644		fire damper	bOutFireDamperErr54	Error triggered fire damper 54	R		3 (BI)	ACTIVE = ok	376
645		fire damper	bOutFireDamperErr55	Error triggered fire damper 55	R		3 (BI)	ACTIVE = ok	377
646		fire damper	bOutFireDamperErr56	Error triggered fire damper 56	R		3 (BI)	ACTIVE = ok	378
647		fire damper	bOutFireDamperErr57	Error triggered fire damper 57	R		3 (BI)	ACTIVE = ok	379
648		fire damper	bOutFireDamperErr58	Error triggered fire damper 58	R		3 (BI)	ACTIVE = ok	380
649		fire damper	bOutFireDamperErr59	Error triggered fire damper 59	R		3 (BI)	ACTIVE = ok	381
650		fire damper	bOutFireDamperErr60	Error triggered fire damper 60	R		3 (BI)	ACTIVE = ok	382
651		fire damper	bOutFireDamperErr61	Error triggered fire damper 61	R		3 (BI)	ACTIVE = ok	383
652		fire damper	bOutFireDamperErr62	Error triggered fire damper 62	R		3 (BI)	ACTIVE = ok	384
653		supply air fan 3 to 16	bOutFanSUPCtrlON3	controlled value operation signal of the supply air fan 3	R		3 (BI)	ACTIVE = on	529
654		supply air fan 3 to 16	bOutFanSUPCtrlON4	controlled value operation signal of the supply air fan 4	R		3 (BI)	ACTIVE = on	530
655		supply air fan 3 to 16	bOutFanSUPCtrlON5	controlled value operation signal of the supply air fan 5	R		3 (BI)	ACTIVE = on	531
656		supply air fan 3 to 16	bOutFanSUPCtrlON6	controlled value operation signal of the supply air fan 6	R		3 (BI)	ACTIVE = on	532
657		supply air fan 3 to 16	bOutFanSUPCtrlON7	controlled value operation signal of the supply air fan 7	R		3 (BI)	ACTIVE = on	533
658		supply air fan 3 to 16	bOutFanSUPCtrlON8	controlled value operation signal of the supply air fan 8	R		3 (BI)	ACTIVE = on	534
659		supply air fan 3 to 16	bOutFanSUPCtrlON9	controlled value operation signal of the supply air fan 9	R		3 (BI)	ACTIVE = on	535
660		supply air fan 3 to 16	bOutFanSUPCtrlON10	controlled value operation signal of the supply air fan 10	R		3 (BI)	ACTIVE = on	536
661		supply air fan 3 to 16	bOutFanSUPCtrlON11	controlled value operation signal of the supply air fan 11	R		3 (BI)	ACTIVE = on	537
662		supply air fan 3 to 16	bOutFanSUPCtrlON12	controlled value operation signal of the supply air fan 12	R		3 (BI)	ACTIVE = on	538
663		supply air fan 3 to 16	bOutFanSUPCtrlON13	controlled value operation signal of the supply air fan 13	R		3 (BI)	ACTIVE = on	539
664		supply air fan 3 to 16	bOutFanSUPCtrlON14	controlled value operation signal of the supply air fan 14	R		3 (BI)	ACTIVE = on	540
665		supply air fan 3 to 16	bOutFanSUPCtrlON15	controlled value operation signal of the supply air fan 15	R		3 (BI)	ACTIVE = on	541
666		supply air fan 3 to 16	bOutFanSUPCtrlON16	controlled value operation signal of the supply air fan 16	R		3 (BI)	ACTIVE = on	542
667		supply air fan 3 to 16	bOutFanSUPInErr3	internal error supply air fan 3	R		3 (BI)	ACTIVE = ok	493
668		supply air fan 3 to 16	bOutFanSUPInErr4	internal error supply air fan 4	R		3 (BI)	ACTIVE = ok	494
669		supply air fan 3 to 16	bOutFanSUPInErr5	internal error supply air fan 5	R		3 (BI)	ACTIVE = ok	495
670		supply air fan 3 to 16	bOutFanSUPInErr6	internal error supply air fan 6	R		3 (BI)	ACTIVE = ok	496
671		supply air fan 3 to 16	bOutFanSUPInErr7	internal error supply air fan 7	R		3 (BI)	ACTIVE = ok	497
672		supply air fan 3 to 16	bOutFanSUPInErr8	internal error supply air fan 8	R		3 (BI)	ACTIVE = ok	498
673		supply air fan 3 to 16	bOutFanSUPInErr9	internal error supply air fan 9	R		3 (BI)	ACTIVE = ok	499

## Data point list Modbus/TCP X-CUBE Control

D: important data points  
S: system specific data points

default BACnet Device ID: 105001

no.	D/S	group	object name	description	R/W	unit	object type	values	object instance
674		supply air fan 3 to 16	bOutFanSUPInErr10	internal error supply air fan 10	R		3 (BI)	ACTIVE = ok	500
675		supply air fan 3 to 16	bOutFanSUPInErr11	internal error supply air fan 11	R		3 (BI)	ACTIVE = ok	501
676		supply air fan 3 to 16	bOutFanSUPInErr12	internal error supply air fan 12	R		3 (BI)	ACTIVE = ok	502
677		supply air fan 3 to 16	bOutFanSUPInErr13	internal error supply air fan 13	R		3 (BI)	ACTIVE = ok	503
678		supply air fan 3 to 16	bOutFanSUPInErr14	internal error supply air fan 14	R		3 (BI)	ACTIVE = ok	504
679		supply air fan 3 to 16	bOutFanSUPInErr15	internal error supply air fan 15	R		3 (BI)	ACTIVE = ok	505
680		supply air fan 3 to 16	bOutFanSUPInErr16	internal error supply air fan 16	R		3 (BI)	ACTIVE = ok	506
681		supply air fan 3 to 16	bOutFanSUPComErr3	modbus comm. error with the supply air fan 3	R		3 (BI)	ACTIVE = ok	461
682		supply air fan 3 to 16	bOutFanSUPComErr4	modbus comm. error with the supply air fan 4	R		3 (BI)	ACTIVE = ok	462
683		supply air fan 3 to 16	bOutFanSUPComErr5	modbus comm. error with the supply air fan 5	R		3 (BI)	ACTIVE = ok	463
684		supply air fan 3 to 16	bOutFanSUPComErr6	modbus comm. error with the supply air fan 6	R		3 (BI)	ACTIVE = ok	464
685		supply air fan 3 to 16	bOutFanSUPComErr7	modbus comm. error with the supply air fan 7	R		3 (BI)	ACTIVE = ok	465
686		supply air fan 3 to 16	bOutFanSUPComErr8	modbus comm. error with the supply air fan 8	R		3 (BI)	ACTIVE = ok	466
687		supply air fan 3 to 16	bOutFanSUPComErr9	modbus comm. error with the supply air fan 9	R		3 (BI)	ACTIVE = ok	467
688		supply air fan 3 to 16	bOutFanSUPComErr10	modbus comm. error with the supply air fan 10	R		3 (BI)	ACTIVE = ok	468
689		supply air fan 3 to 16	bOutFanSUPComErr11	modbus comm. error with the supply air fan 11	R		3 (BI)	ACTIVE = ok	469
690		supply air fan 3 to 16	bOutFanSUPComErr12	modbus comm. error with the supply air fan 12	R		3 (BI)	ACTIVE = ok	470
691		supply air fan 3 to 16	bOutFanSUPComErr13	modbus comm. error with the supply air fan 13	R		3 (BI)	ACTIVE = ok	471
692		supply air fan 3 to 16	bOutFanSUPComErr14	modbus comm. error with the supply air fan 14	R		3 (BI)	ACTIVE = ok	472
693		supply air fan 3 to 16	bOutFanSUPComErr15	modbus comm. error with the supply air fan 15	R		3 (BI)	ACTIVE = ok	473
694		supply air fan 3 to 16	bOutFanSUPComErr16	modbus comm. error with the supply air fan 16	R		3 (BI)	ACTIVE = ok	474
695		supply air fan 3 to 16	bOutFanSUPRepairSwitch3	repair switch of the supply air fan is active 3	R		3 (BI)	ACTIVE = ok	429
696		supply air fan 3 to 16	bOutFanSUPRepairSwitch4	repair switch of the supply air fan is active 4	R		3 (BI)	ACTIVE = ok	430
697		supply air fan 3 to 16	bOutFanSUPRepairSwitch5	repair switch of the supply air fan is active 5	R		3 (BI)	ACTIVE = ok	431
698		supply air fan 3 to 16	bOutFanSUPRepairSwitch6	repair switch of the supply air fan is active 6	R		3 (BI)	ACTIVE = ok	432
699		supply air fan 3 to 16	bOutFanSUPRepairSwitch7	repair switch of the supply air fan is active 7	R		3 (BI)	ACTIVE = ok	433
700		supply air fan 3 to 16	bOutFanSUPRepairSwitch8	repair switch of the supply air fan is active 8	R		3 (BI)	ACTIVE = ok	434
701		supply air fan 3 to 16	bOutFanSUPRepairSwitch9	repair switch of the supply air fan is active 9	R		3 (BI)	ACTIVE = ok	435
702		supply air fan 3 to 16	bOutFanSUPRepairSwitch10	repair switch of the supply air fan is active 10	R		3 (BI)	ACTIVE = ok	436
703		supply air fan 3 to 16	bOutFanSUPRepairSwitch11	repair switch of the supply air fan is active 11	R		3 (BI)	ACTIVE = ok	437
704		supply air fan 3 to 16	bOutFanSUPRepairSwitch12	repair switch of the supply air fan is active 12	R		3 (BI)	ACTIVE = ok	438
705		supply air fan 3 to 16	bOutFanSUPRepairSwitch13	repair switch of the supply air fan is active 13	R		3 (BI)	ACTIVE = ok	439
706		supply air fan 3 to 16	bOutFanSUPRepairSwitch14	repair switch of the supply air fan is active 14	R		3 (BI)	ACTIVE = ok	440
707		supply air fan 3 to 16	bOutFanSUPRepairSwitch15	repair switch of the supply air fan is active 15	R		3 (BI)	ACTIVE = ok	441
708		supply air fan 3 to 16	bOutFanSUPRepairSwitch16	repair switch of the supply air fan is active 16	R		3 (BI)	ACTIVE = ok	442
709		extract air fan 3 to 16	bOutFanETACtrlON3	controlled value operation signal of the extract air fan 3	R		3 (BI)	ACTIVE = on	545
710		extract air fan 3 to 16	bOutFanETACtrlON4	controlled value operation signal of the extract air fan 4	R		3 (BI)	ACTIVE = on	546
711		extract air fan 3 to 16	bOutFanETACtrlON5	controlled value operation signal of the extract air fan 5	R		3 (BI)	ACTIVE = on	547

## Data point list Modbus/TCP X-CUBE Control

D: important data points  
S: system specific data points

default BACnet Device ID: 105001

no.	D/S	group	object name	description	R/W	unit	object type	values	object instance
712		extract air fan 3 to 16	bOutFanETACtrION6	controlled value operation signal of the extract air fan 6	R		3 (BI)	ACTIVE = on	548
713		extract air fan 3 to 16	bOutFanETACtrION7	controlled value operation signal of the extract air fan 7	R		3 (BI)	ACTIVE = on	549
714		extract air fan 3 to 16	bOutFanETACtrION8	controlled value operation signal of the extract air fan 8	R		3 (BI)	ACTIVE = on	550
715		extract air fan 3 to 16	bOutFanETACtrION9	controlled value operation signal of the extract air fan 9	R		3 (BI)	ACTIVE = on	551
716		extract air fan 3 to 16	bOutFanETACtrION10	controlled value operation signal of the extract air fan 10	R		3 (BI)	ACTIVE = on	552
717		extract air fan 3 to 16	bOutFanETACtrION11	controlled value operation signal of the extract air fan 11	R		3 (BI)	ACTIVE = on	553
718		extract air fan 3 to 16	bOutFanETACtrION12	controlled value operation signal of the extract air fan 12	R		3 (BI)	ACTIVE = on	554
719		extract air fan 3 to 16	bOutFanETACtrION13	controlled value operation signal of the extract air fan 13	R		3 (BI)	ACTIVE = on	555
720		extract air fan 3 to 16	bOutFanETACtrION14	controlled value operation signal of the extract air fan 14	R		3 (BI)	ACTIVE = on	556
721		extract air fan 3 to 16	bOutFanETACtrION15	controlled value operation signal of the extract air fan 15	R		3 (BI)	ACTIVE = on	557
722		extract air fan 3 to 16	bOutFanETACtrION16	controlled value operation signal of the extract air fan 16	R		3 (BI)	ACTIVE = on	558
723		extract air fan 3 to 16	bOutFanETAInErr3	internal error extract air fan 3	R		3 (BI)	ACTIVE = ok	509
724		extract air fan 3 to 16	bOutFanETAInErr4	internal error extract air fan 4	R		3 (BI)	ACTIVE = ok	510
725		extract air fan 3 to 16	bOutFanETAInErr5	internal error extract air fan 5	R		3 (BI)	ACTIVE = ok	511
726		extract air fan 3 to 16	bOutFanETAInErr6	internal error extract air fan 6	R		3 (BI)	ACTIVE = ok	512
727		extract air fan 3 to 16	bOutFanETAInErr7	internal error extract air fan 7	R		3 (BI)	ACTIVE = ok	513
728		extract air fan 3 to 16	bOutFanETAInErr8	internal error extract air fan 8	R		3 (BI)	ACTIVE = ok	514
729		extract air fan 3 to 16	bOutFanETAInErr9	internal error extract air fan 9	R		3 (BI)	ACTIVE = ok	515
730		extract air fan 3 to 16	bOutFanETAInErr10	internal error extract air fan 10	R		3 (BI)	ACTIVE = ok	516
731		extract air fan 3 to 16	bOutFanETAInErr11	internal error extract air fan 11	R		3 (BI)	ACTIVE = ok	517
732		extract air fan 3 to 16	bOutFanETAInErr12	internal error extract air fan 12	R		3 (BI)	ACTIVE = ok	518
733		extract air fan 3 to 16	bOutFanETAInErr13	internal error extract air fan 13	R		3 (BI)	ACTIVE = ok	519
734		extract air fan 3 to 16	bOutFanETAInErr14	internal error extract air fan 14	R		3 (BI)	ACTIVE = ok	520
735		extract air fan 3 to 16	bOutFanETAInErr15	internal error extract air fan 15	R		3 (BI)	ACTIVE = ok	521
736		extract air fan 3 to 16	bOutFanETAInErr16	internal error extract air fan 16	R		3 (BI)	ACTIVE = ok	522
737		extract air fan 3 to 16	bOutFanETAComErr3	modbus comm. error with the extract air fan 3	R		3 (BI)	ACTIVE = ok	477
738		extract air fan 3 to 16	bOutFanETAComErr4	modbus comm. error with the extract air fan 4	R		3 (BI)	ACTIVE = ok	478
739		extract air fan 3 to 16	bOutFanETAComErr5	modbus comm. error with the extract air fan 5	R		3 (BI)	ACTIVE = ok	479
740		extract air fan 3 to 16	bOutFanETAComErr6	modbus comm. error with the extract air fan 6	R		3 (BI)	ACTIVE = ok	480
741		extract air fan 3 to 16	bOutFanETAComErr7	modbus comm. error with the extract air fan 7	R		3 (BI)	ACTIVE = ok	481
742		extract air fan 3 to 16	bOutFanETAComErr8	modbus comm. error with the extract air fan 8	R		3 (BI)	ACTIVE = ok	482
743		extract air fan 3 to 16	bOutFanETAComErr9	modbus comm. error with the extract air fan 9	R		3 (BI)	ACTIVE = ok	483
744		extract air fan 3 to 16	bOutFanETAComErr10	modbus comm. error with the extract air fan 10	R		3 (BI)	ACTIVE = ok	484
745		extract air fan 3 to 16	bOutFanETAComErr11	modbus comm. error with the extract air fan 11	R		3 (BI)	ACTIVE = ok	485
746		extract air fan 3 to 16	bOutFanETAComErr12	modbus comm. error with the extract air fan 12	R		3 (BI)	ACTIVE = ok	486
747		extract air fan 3 to 16	bOutFanETAComErr13	modbus comm. error with the extract air fan 13	R		3 (BI)	ACTIVE = ok	487
748		extract air fan 3 to 16	bOutFanETAComErr14	modbus comm. error with the extract air fan 14	R		3 (BI)	ACTIVE = ok	488
749		extract air fan 3 to 16	bOutFanETAComErr15	modbus comm. error with the extract air fan 15	R		3 (BI)	ACTIVE = ok	489

## Data point list Modbus/TCP X-CUBE Control

D: important data points

default BACnet Device ID: 105001

S: system specific data points

no.	D/S	group	object name	description	R/W	unit	object type	values	object instance
750		extract air fan 3 to 16	bOutFanETAComErr16	modbus comm. error with the extract air fan 16	R		3 (BI)	ACTIVE = ok	490
751		extract air fan 3 to 16	bOutFanETARepairSwitch3	repair switch of the extract air fan is active 3	R		3 (BI)	ACTIVE = ok	445
752		extract air fan 3 to 16	bOutFanETARepairSwitch4	repair switch of the extract air fan is active 4	R		3 (BI)	ACTIVE = ok	446
753		extract air fan 3 to 16	bOutFanETARepairSwitch5	repair switch of the extract air fan is active 5	R		3 (BI)	ACTIVE = ok	447
754		extract air fan 3 to 16	bOutFanETARepairSwitch6	repair switch of the extract air fan is active 6	R		3 (BI)	ACTIVE = ok	448
755		extract air fan 3 to 16	bOutFanETARepairSwitch7	repair switch of the extract air fan is active 7	R		3 (BI)	ACTIVE = ok	449
756		extract air fan 3 to 16	bOutFanETARepairSwitch8	repair switch of the extract air fan is active 8	R		3 (BI)	ACTIVE = ok	450
757		extract air fan 3 to 16	bOutFanETARepairSwitch9	repair switch of the extract air fan is active 9	R		3 (BI)	ACTIVE = ok	451
758		extract air fan 3 to 16	bOutFanETARepairSwitch10	repair switch of the extract air fan is active 10	R		3 (BI)	ACTIVE = ok	452
759		extract air fan 3 to 16	bOutFanETARepairSwitch11	repair switch of the extract air fan is active 11	R		3 (BI)	ACTIVE = ok	453
760		extract air fan 3 to 16	bOutFanETARepairSwitch12	repair switch of the extract air fan is active 12	R		3 (BI)	ACTIVE = ok	454
761		extract air fan 3 to 16	bOutFanETARepairSwitch13	repair switch of the extract air fan is active 13	R		3 (BI)	ACTIVE = ok	455
762		extract air fan 3 to 16	bOutFanETARepairSwitch14	repair switch of the extract air fan is active 14	R		3 (BI)	ACTIVE = ok	456
763		extract air fan 3 to 16	bOutFanETARepairSwitch15	repair switch of the extract air fan is active 15	R		3 (BI)	ACTIVE = ok	457
764		extract air fan 3 to 16	bOutFanETARepairSwitch16	repair switch of the extract air fan is active 16	R		3 (BI)	ACTIVE = ok	458
765		electric preheater	bOutPreEheaterFlowDetector	electric preheater flow detector	R		3 (BI)	ACTIVE = ok	625
766		electric preheater	bOutPreEheaterTempLimiter	electric preheater temperature limiter	R		3 (BI)	ACTIVE = ok	623
767		electric preheater	bOutPreEheaterTempWarning	electric preheater temperature monitor	R		3 (BI)	ACTIVE = ok	624
768	S	electric preheater	bOutPreEheaterCtrlON	controlled value operation signal of the electric preheater	R		3 (BI)	ACTIVE = on	626
769	S	electric preheater	fOutPreEheaterCtrlPower	controlled value of the electric preheater power [0..100%]	R	% (98)	0 (AI)		124
770		electric reheater	bOutReEheaterFlowDetector	electric reheater flow detector	R		3 (BI)	ACTIVE = ok	629
771		electric reheater	bOutReEheaterTempLimiter	electric reheater temperature limiter	R		3 (BI)	ACTIVE = ok	627
772		electric reheater	bOutReEheaterTempWarning	electric reheater temperature monitor	R		3 (BI)	ACTIVE = ok	628
773	S	electric reheater	bOutReEheaterCtrlON	controlled value operation signal of the electric reheater	R		3 (BI)	ACTIVE = on	630
774	S	electric reheater	fOutReEheaterCtrlPower	controlled value of the electric reheater power [0..100%]	R	% (98)	0 (AI)		125
775	S	external chiller	bOutExternalChillerError	ext. chiller error	R		3 (BI)	ACTIVE = ok	631
776	S	external chiller	bOutExternalChillerPVON	ext. chiller operating	R		3 (BI)	ACTIVE = on	632
777	S	external chiller	bOutExternalChillerCtrlON	controlled value operation signal of the ext. chiller	R		3 (BI)	ACTIVE = on	633
778	S	external chiller	fOutExternalChillerCtrlPower	controlled value of the ext. chiller power [0..100%]	R	% (98)	0 (AI)		126
779		humidifier	bOutHumidifierActive	humidifier active	R		3 (BI)	ACTIVE = active	637
780	S	humidifier	bOutHumidifierError	humidifier error	R		3 (BI)	ACTIVE = ok	634
781	S	humidifier	bOutHumidifierPVON	humidifier operating	R		3 (BI)	ACTIVE = on	635
782		humidifier	bOutHumidifierHygrostat	humidifier hygrostat	R		3 (BI)	ACTIVE = ok	638
783		humidifier	bOutHumidifierService	humidifier service	R		3 (BI)	ACTIVE = on	636
784		humidifier	bOutHumidifierCtrlClean	controlled value to clean humidifier	R		3 (BI)	ACTIVE = on	640
785	S	humidifier	bOutHumidifierCtrlOn	controlled value operation signal of the humidifier	R		3 (BI)	ACTIVE = on	639
786	S	humidifier	fOutHumidifierCtrlPower	controlled value of the humidifier power [0..100%]	R	% (98)	0 (AI)		127
787	S	heat pump 1	bOutHeatPumpError1	heatpump 1 error	R		3 (BI)	ACTIVE = ok	641

## Data point list Modbus/TCP X-CUBE Control

D: important data points

S: system specific data points

default BACnet Device ID: 105001

no.	D/S	group	object name	description	R/W	unit	object type	values	object instance
788	S	heat pump 1	bOutHeatPumpPVDecing1	heatpump 1 deicing	R		3 (BI)	ACTIVE = active	644
789	S	heat pump 1	bOutHeatPumpPVHeating1	heatpump 1 heating	R		3 (BI)	ACTIVE = active	642
790	S	heat pump 1	bOutHeatPumpPVOperation1	heatpump 1 operating	R		3 (BI)	ACTIVE = active	643
791	S	heat pump 1	bOutHeatPumpCtrlCooling1	controlled value cooling signal of the heatpump 1	R		3 (BI)	ACTIVE = on	646
792	S	heat pump 1	bOutHeatPumpCtrlHeating1	controlled value heating signal of the heatpump 1	R		3 (BI)	ACTIVE = on	645
793	S	heat pump 1	bOutHeatPumpCtrlRelease1	controlled value operation signal of the heatpump 1	R		3 (BI)	ACTIVE = on	647
794	S	heat pump 1	fOutHeatPumpCtrlPower1	controlled value of the heatpump 1 power [0..100%]	R	% (98)	0 (AI)		128
795	S	heat pump 2	bOutHeatPumpError2	heatpump 2 error	R		3 (BI)	ACTIVE = ok	648
796	S	heat pump 2	bOutHeatPumpPVDecing2	heatpump 2 deicing	R		3 (BI)	ACTIVE = active	651
797	S	heat pump 2	bOutHeatPumpPVHeating2	heatpump 2 heating	R		3 (BI)	ACTIVE = active	649
798	S	heat pump 2	bOutHeatPumpPVOperation2	heatpump 2 operating	R		3 (BI)	ACTIVE = active	650
799	S	heat pump 2	bOutHeatPumpCtrlCooling2	controlled value cooling signal of the heatpump 2	R		3 (BI)	ACTIVE = on	653
800	S	heat pump 2	bOutHeatPumpCtrlHeating2	controlled value heating signal of the heatpump 2	R		3 (BI)	ACTIVE = on	652
801	S	heat pump 2	bOutHeatPumpCtrlRelease2	controlled value operation signal of the heatpump 2	R		3 (BI)	ACTIVE = on	654
802	S	heat pump 2	fOutHeatPumpCtrlPower2	controlled value of the heatpump 2 power [0..200%]	R	% (98)	0 (AI)		129
803		heat pump 3	bOutHeatPumpError3	heatpump 3 error	R		3 (BI)	ACTIVE = ok	655
804		heat pump 3	bOutHeatPumpPVDecing3	heatpump 3 deicing	R		3 (BI)	ACTIVE = active	658
805		heat pump 3	bOutHeatPumpPVHeating3	heatpump 3 heating	R		3 (BI)	ACTIVE = active	656
806		heat pump 3	bOutHeatPumpPVOperation3	heatpump 3 operating	R		3 (BI)	ACTIVE = active	657
807		heat pump 3	bOutHeatPumpCtrlCooling3	controlled value cooling signal of the heatpump 3	R		3 (BI)	ACTIVE = on	660
808		heat pump 3	bOutHeatPumpCtrlHeating3	controlled value heating signal of the heatpump 3	R		3 (BI)	ACTIVE = on	659
809		heat pump 3	bOutHeatPumpCtrlRelease3	controlled value operation signal of the heatpump 3	R		3 (BI)	ACTIVE = on	661
810		heat pump 3	fOutHeatPumpCtrlPower3	controlled value of the heatpump 3 power [0..300%]	R	% (98)	0 (AI)		130
811		heat pump 4	bOutHeatPumpError4	heatpump 4 error	R		3 (BI)	ACTIVE = ok	662
812		heat pump 4	bOutHeatPumpPVDecing4	heatpump 4 deicing	R		3 (BI)	ACTIVE = active	665
813		heat pump 4	bOutHeatPumpPVHeating4	heatpump 4 heating	R		3 (BI)	ACTIVE = active	663
814		heat pump 4	bOutHeatPumpPVOperation4	heatpump 4 operating	R		3 (BI)	ACTIVE = active	664
815		heat pump 4	bOutHeatPumpCtrlCooling4	controlled value cooling signal of the heatpump 4	R		3 (BI)	ACTIVE = on	667
816		heat pump 4	bOutHeatPumpCtrlHeating4	controlled value heating signal of the heatpump 4	R		3 (BI)	ACTIVE = on	666
817		heat pump 4	bOutHeatPumpCtrlRelease4	controlled value operation signal of the heatpump 4	R		3 (BI)	ACTIVE = on	668
818		heat pump 4	fOutHeatPumpCtrlPower4	controlled value of the heatpump 4 power [0..400%]	R	% (98)	0 (AI)		131