

MODBUS / BACNET

0661156_R03

OJ Air2 Master Controller RJ12 Modbus/RTU Anschluss

Abb. 1 OJ Air2 Master, Visuelle Oberseite

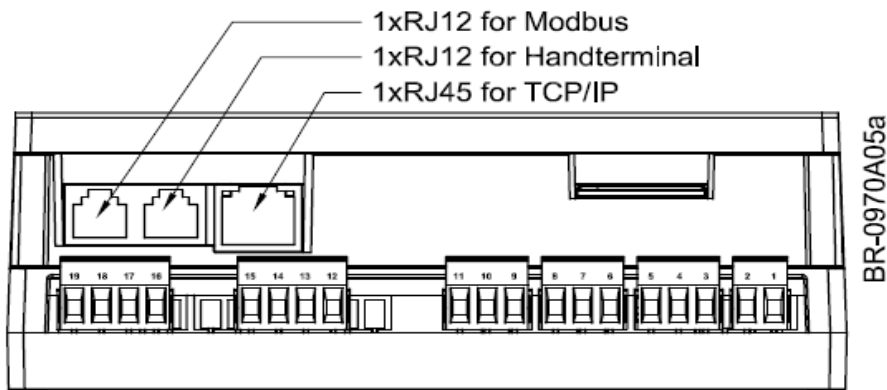


Abb. 2 Konfiguration bei Kommunikation über externen Modbus

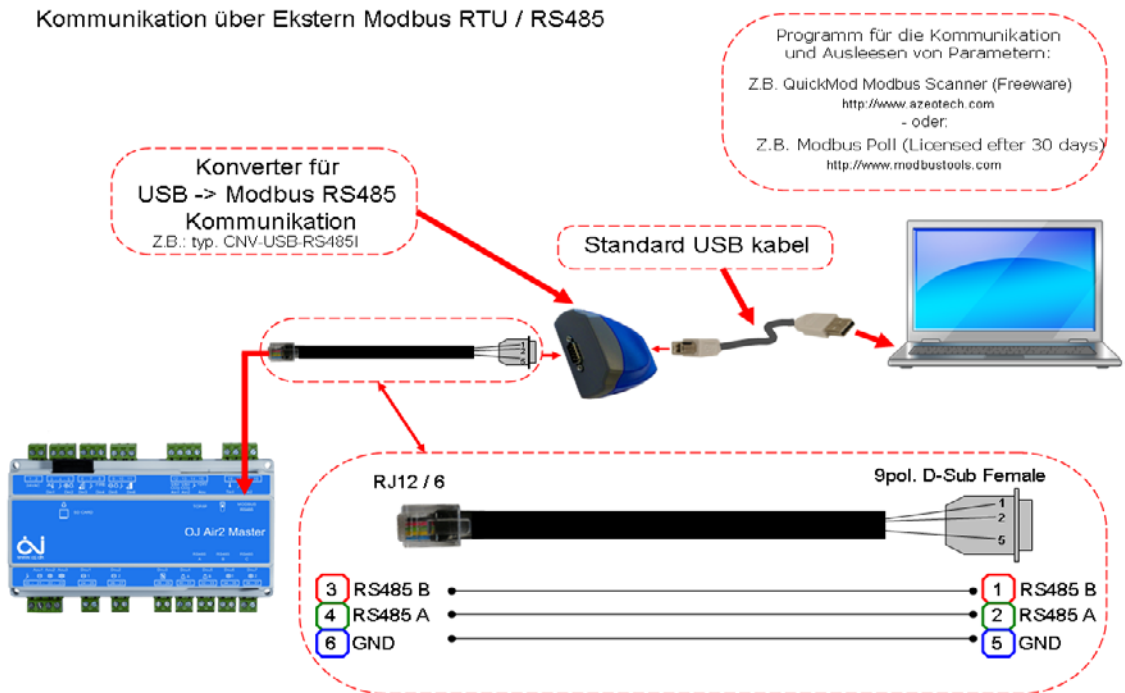
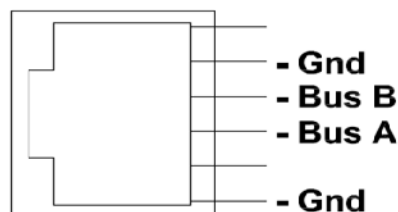


Abb. 3 Modbus RJ12 Steckanschluss



Modbus RTU/TCP

OJ Air2, Programmversion 3.25 und spätere Versionen

Übersicht

Dieses Protokoll enthält alle Modbus-Adressen und Register im OJ-Air2Master. Die Aktualisierung der Werte in den einzelnen Registern hängt von der aktuellen Konfiguration des Lüfteraggregats ab. Z. B. lässt sich das Wasserbatterietemperatur-Register 3x0030 ablesen, unabhängig davon, ob in der aktuellen Anlage eine Wasserbatterie installiert ist oder nicht. Der Wert ist aber nur brauchbar, wenn ein zugehöriger Temperaturfühler installiert ist.

Der Modbus kann Zugang zu Einzeladressen oder mehreren Adressen gleichzeitig erhalten, entweder mit Lesen oder Schreiben eines 1-Bit-Werts oder von 16-Bit-Werten. Eine Modbus-Adresse enthält entweder einen 1-Bit-Wert oder eine 16-Bit-Ganzzahl.

Kommunikation

TCP/IP: 1 St. 10/100 Mbit Ethernet, RJ45-Stecker

Modbus RS485: 1 St. externer Modbus, RS485, RJ12-Stecker einstellbar auf 9,6 kBaud, 19,2 kBaud oder 38,4 kBaud.

Pin1 NC, Pin2 GND, Pin3 RS485 B, Pin4 RS485 A, Pin5 NC, Pin6 GND (siehe Abb. 2)

Handterminal 1 St. Modbus, RS485, 115 kBaud, +24 V DC, RJ12-Stecker

RS485 A: Nicht verwendet

RS485 B und C 2 St. gemeinsamer lokaler Modbus, RS485, 38,4 kBaud, +24 V DC, RJ12-Stecker

Standard Modbus TCP/IP Kommunikationsport: 502

Modbus-Datenformat

Die Modbus-Datentypen sind 1-Bit-Werte oder 16-Bit-Werte.

Modbus-Typ	Beschreibung	Referenz-Nr.
Coil Status (R/W)	Discrete Output	0x
Input Status (R)	Discrete Input	1x
Holding Register (R/W)	16-bit Output Register	4x
Input register (R)	16-bit Input Register	3x

R = Read Only

R/W = Read / Write

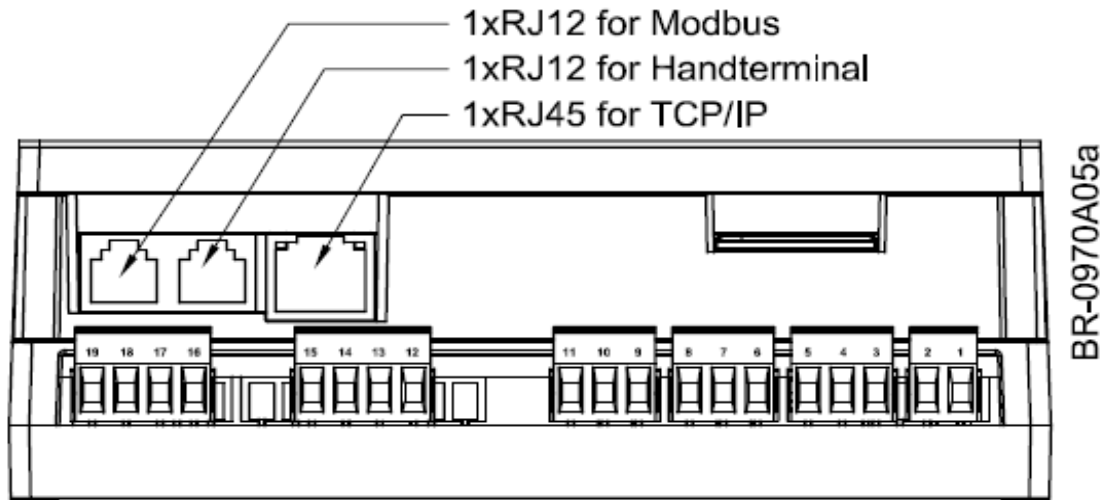
Unterstützte Modbus-Kommandos

OJ Air2 unterstützt folgende Modbus-Kommandos:

Function Code	Beschreibung
1	Read Coil Status
2	Read Input Status
3	Read Holding Registers
4	Read Input Registers
5	Force Single Coil
6	Preset Single Registers
8	Diagnostics.Sub-funktion 00 Only - Return Query Data (loop back)
15	Force Multiple Coils
16	Preset Multiple Registers

OJ Air2 Master Controller
1 x RJ45 TCP/IP für BACnet/IP verbindung zu
interner BACnet-server in OJ Air2 Master

Abb. 1 OJ Air2 Master, Visuelle Oberseite



BACnet

OJ Air2, Programm Version 3.25 und spätere Versionen.

Übersicht

Die BACnet Funktion ergibt die Möglichkeit einer BACnet Kontrolle und eine Überwachung der kompletten Air Handling Unit (AHU) Anlage, die mit einer OJ-Air2Master Steuerung versehen ist.

Die BACnet Funktionalität ist in den OJ-Air2Mastern mit Software Version 2.00 oder höher implementiert.

Dieses Protokoll enthält alle BACnet-Adressen und Register im OJ-Air2Master. Die Aktualisierung der Werte in den einzelnen Registern hängt von der aktuellen Konfiguration des Lüfteraggregats ab. Z. B. lässt sich das Wasserbatterietemperatur-Register Analog Input Object Instance 36 ablesen, unabhängig davon, ob in der aktuellen Anlage eine Wasserbatterie installiert ist oder nicht. Der Wert ist aber nur brauchbar, wenn ein zugehöriger Temperaturfühler installiert ist

Der OJ-Air2Master ist ein BACnet Applikation Specific Controller (B-ASC)

Supportiert Data Link Layer Options: BACnet IP

Sehen Sie bitte auch die Dokumente "OJ-Air2 BACnet PICS" (Protocol Implementation Conformance Statement) und "OJ-Air2 EDE" (Engineering Data Exchange).

Kommunikation

TCP/IP: 1 Stück 10/100Mbit Ethernet, RJ45 Stecker

BACnet TCP/IP kommunikationsport: 47808

Object Identifier:

Die Object_Identifier wird automatisch Eingestellt auf die letzten 5 Ziffern vom OJ-Air2Master IP-Adresse

Beispiele: IP-adresse = 172.21.0.95 Object Identifier = 95

IP-adresse = 155.37.0.216 Object Identifier = 216

IP-adresse = 155.37.35.123 Object Identifier = 35123

IP-adresse = 132.65.124.103 Object Identifier = 24103

IP-adresse = 172.20.211.47 Object Identifier = 11047

IP-adresse = 155.37.111.123 Object Identifier = 11123

IP-adresse = 168.25.111.1 Object Identifier = 11001

***OBS! Die Object_Identifier wird nur einmal und nur festgelegt,
wenn die OJ-Air2 Master eingeschaltet oder neu gestartet wird.***

Maksimal 300 Werte können gleichzeitig registriert werden im COV (Change Of Value)

BACnet Interoperability Building Blocks Supported

Data Sharing	DS-RP-B	Data Sharing-Read Property-B
Data sharing	DS-WP-B	Data Sharing-Write Property-B
Device Management	DM-DDB-B	Device Management-Dynamic Device Binding-B
Device Management	DM-DOB-B	Device Management-Dynamic Object Binding-B
Device Management	DM-DCC-B	Device Management-Dynamic Communication Control-B

Standard Object Types Supported

Object type	Properties
Analog Input	Object_Identifier, Object_Name, Object_Type, Present_Value, Status_Flags, Event_State, Out_Of_Service, Units, Min_Pres_Value, Max_Pres_Value, Resolution, Reliability, COV_Increment
Analog Value	Object_Identifier, Object_Name, Object_Type, Present_Value, Status_Flags, Event_State, Out_Of_Service, Units, Priority_Array, Relinquish_Default, COV_Increment.
Binary Input	Object_Identifier, Object_Name, Object_Type, Present_Value, Status_Flags, Event_State, Out_Of_Service, Polarity.
Binary Value	Object_Identifier, Object_Name, Object_Type, Present_Value, Status_Flags, Event_State, Out_Of_Service, Priority_Array, Relinquish_Default.
Device	Object_Identifier, Object_Name, Object_Type, System_Status, Vendor_Name, Vendor_Identifier, Model_Name, Firmware_Revision, Application_Software_Version, Location, Description, Protocol_Version, Protocol_Revision, Protocol_Services_Supported, Protocol_Object_Types_Supported, Object_list, Max_APDU_Length_Accepted, Segmentation_Supported, APDU_Timeout, Number_Of_APDU_Retries, Device_Address_Binding, Database_Revision.

Aktueller Abluftstrom [l/s] AI; OI=7
 Abluftmotor Prozent Ausgang [1/100 %] AI; OI=60
 Sollwert Abluftstrom Niedrige Drehzahl [l/s] AV; OI=12
 Sollwert Abluftstrom Hohe Drehzahl [l/s] AV; OI=13

Aktueller Kanaldruck Abluft [Pa] AI; OI=3
 Sollwert Niedrige Drehzahl Kanaldruck Abluft [Pa] AV; OI=6
 Sollwert Hohe Drehzahl Kanaldruck Abluft [Pa] AV; OI=7
 Zuluft Filterdruck [Pa] AI; OI=27
 Zuluft Filterüberwachung Max. Alarmsgrenze [Pa] AI; OI=31

Aktuelle Betriebsform AI; OI=0
 Betrieb EIN/AUS BI; OI=0
 Verlängerte Niedrige Drehzahl -> Aktiv BI; OI=3
 Verlängerte Hohe Drehzahl -> Aktiv BI; OI=4
 Alarmrelais 1 (A-Alarm) BI; OI=30
 Alarmrelais 2 (B-Alarm) BI; OI=31
 Alarm Rückstellsignal (AutoReturn auf Null) BV; OI=0

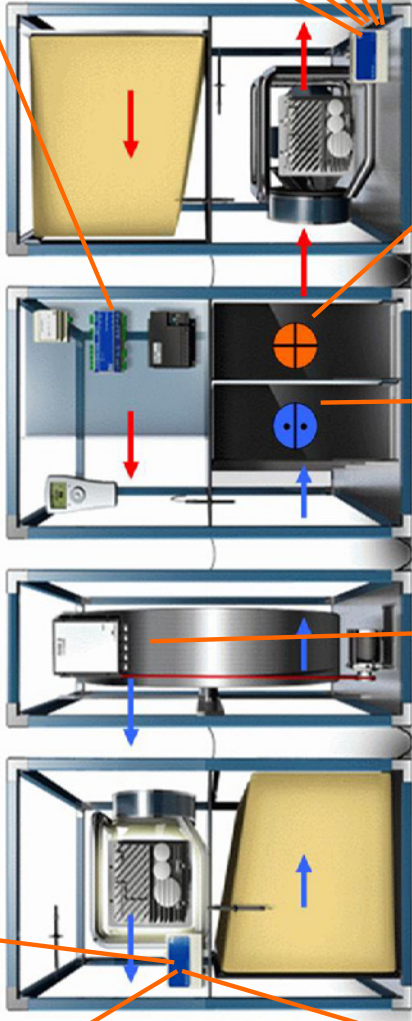
Aktuelle Zulufttemp. [1/100 °C] AI; OI=16
 Einstellung des Regelprinzips AV; OI=133
 Temperatur-Sollwert für aktuelles Regelprinzip AV; OI=134

Abluft Filterdruck [Pa] AI; OI=28
 Max. Alarmsgrenze Abluftfilter Druckabfall [Pa] AI; OI=32

Aktuelle Raumtemp. [1/100 °C] AI; OI=21
 Aktuelle Fortlufttemp. [1/100 °C] AI; OI=22
 Min. Begrenzung Zulufttemperatur [1/100 °C] AV; OI=135
 Max. Begrenzung Zulufttemperatur [1/100 °C] AV; OI=136

Aktueller Kanaldruck Zuluft [Pa] AI; OI=1
 Sollwert Kanaldruck Niedrige Drehzahl Zuluft [Pa] AV; OI=2
 Sollwert Kanaldruck Hohe Drehzahl Zuluft [Pa] AV; OI=3

Aktueller Luftstrom Zuluft [l/s] AI; OI=5
 Zuluftmotor Prozent Ausgang [1/100 %] AI; OI=51
 Sollwert Zuluftstrom Niedrige Drehzahl [l/s] AV; OI=10
 Sollwert Zuluftstrom Hohe Drehzahl [l/s] AV; OI=11



Aktuelle Außentemp. [1/100 °C] AI; OI=20

Rotierender Wärmetauscher – Ausgang in AI; OI=68

Aktuelle Kühlleistung [1/100 %] AI; OI=38

Aktuelle Heizleistung [1/100 %] AI; OI=36
 Heizrelais 1 BI; OI=26
 Aktuelle Heizb.temp. [1/100 %] AI; OI=26

AI= Analog Input
 AV= Analog Value
 BI= Binary Input
 BV= Binary Value

OI= Object Instance

Component	Function	Standard/ Special	Name	SI Unit	Modbus register	SW vers.	BacNet parameter Binary value (R/W)	SW vers.	Min	Max	Factory settings	English
1. Info	1. Info	1. Info	1. Info	1. Info	1. Info	1. Info	1. Info	1. Info	1. Info	1. Info	1. Info	1. Info
AHU controller	Alarm	Standard	Alt_Reset		0x0001	xxx	BV0	xxx	0	1		Alarm reset signal (AutoReturn to zero)
Heat exchanger	CoolRecovery	Standard	CoolRecoveryFunc		0x0002	xxx	BV1	xxx	0	1		0 Cooling recovery ON/OFF
AHU controller	Summer/Night Cooling	Standard	SN_Func		0x0003	xxx	BV2	xxx	0	1		0 Summer night cooling ON/OFF
AHU controller	Summer/Winter comp.	Standard	SWTC_Func		0x0004	xxx	BV3	xxx	0	1		0 Summer/Writer temp. compensation: ON/OFF
Fan	Outdoor temp. comp.	Standard	FWTmpCompFunc		0x0005	xxx	BV4	xxx	0	1		0 Flow/outdoor temperature compensation: ON/OFF
Damper, Recirculation	Recirculation heat	Standard	RecircFunc		0x0006	xxx	BV5	xxx	0	1		0 Recirculation: ON/OFF
Fan	Forced cooling	Standard	CoolFlowForceFc		0x0007	xxx	BV6	xxx	0	1		1 Forced flow with cooling demand: ON/OFF
AHU controller	Summer/Writer time	Standard	TimeSW-SumFunc		0x0008	xxx	BV7	xxx	0	1		1 Automatic summer/writer time: ON/OFF
Fan	Speed	Standard	Speed		0x0009	xxx	BV8	xxx	0	1		0 On/Off time for forced high speed active
Heat exchanger drive	Speed	Standard	ExdRPMPeriod		0x0010	xxx	BV9	xxx	0	1		0 Rotary heat exchanger turn rotation direction to counter clock wise (CCW)
Fan	Speed	Standard	EXC_CCV		0x0011	xxx	NA	NA	0	1		0 Input for forced medium speed
Pressure	Calibration	Standard	ManZeroCall		0x0020	xxx	BV10	4.18	0	1		0 Start manual zero calibration (can be used together with automatic zero calibration)
Pressure	Calibration	Standard	AutoZeroCall		0x0021	xxx	BV11	4.18	0	1		0 Is automatically reset to zero (OFF) once calibration has been completed
Filter	Alarm	Standard	FilDynWFunc		0x0022	xxx	BV12	xxx	0	1		0 Dynamic filter alarm -> ON/OFF
Filter	Calibration	Standard	FilCalibrate		0x0023	xxx	BV13	xxx	0	1		0 ON -> static alarm limit (constant)
Filter	Control	Standard	FilCalibrate		0x0024	xxx	BV14	xxx	0	1		0 ON -> dynamic alarm limit (limit based on flow)
Combi coil	Control	Standard	FilCalibrate		0x0025	xxx	BV15	xxx	0	1		0 Start filter calibration. Is automatically reset to zero (OFF) once calibration has been completed.
Combi coil	Control	Standard	CmbEChMB		0x0026	xxx	BV21	4.18	0	1		0 NOTE! ONLY IF "DYNAMIC MODE" IS SET
Temp. Room	Control	Standard	CmbEHeatMB		0x0027	xxx	BV17	6.20	0	1		0 NOTE! ONLY IF "DYNAMIC MODE" IS SET
Damper, Recirculation	Control	Standard	CmbEHeatMB		0x0028	xxx	BV18	xxx	0	1		0 Enable combi coil for control via external Modbus (1=Modbus=0=Digi. Input)
Damper, Recirculation	Control	Standard	MBTRoomAct		0x0029	xxx	BV15	xxx	0	1		1 Hot water supply is available for the combi coil
Damper, Recirculation	Control	Standard	MBTRoomAct		0x0029	xxx	BV16	xxx	0	1		1 Cold water supply is available for the combi coil
Damper, Recirculation	Control	Standard	MBTRoomAct		0x0029	xxx	BV17	xxx	0	1		0 Activate outdoor temperature from BMS
Damper, Recirculation	Control	Standard	MBTRoomAct		0x0029	xxx	BV18	xxx	0	1		0 Activate room temperature from BMS
AHU controller	Speed	Standard	ExdRPMPeriod		1x0001	xxx	B10	xxx	0	1		0 Force recirc via Ext. Modbus
AHU controller	Speed	Standard	ExdRPMPeriod		1x0002	xxx	B11	xxx	0	1		0 Enable Modbus Force recirc signal
AHU controller	Speed	Standard	ExdRPMPeriod		1x0003	xxx	B12	xxx	0	1		0 Operation ON/OFF
AHU controller	Speed	Standard	ExdRPMPeriod		1x0004	xxx	B13	xxx	0	1		0 External stop
AHU controller	Speed	Standard	ExdRPMPeriod		1x0005	xxx	B14	xxx	0	1		0 Extended high speed -> Active
Fan	Fire	Standard	ExdRPMPeriod		1x0006	xxx	B18	xxx	0	1		0 Extended high speed -> Active
Fan	Speed	Standard	ExdRPMPeriod		1x0007	xxx	B225	xxx	0	1		0 Status Brandstop input
Heating coil, Electric	Speed	Standard	ExdRPMPeriod		1x0011	xxx	B15	xxx	0	1		0 Extended medium speed -> Active
AHU controller	Summer/Night Cooling	Standard	SN_Drift		1x0012	xxx	B16	xxx	0	1		0 Power to electric heating coil reduced due to low flow
AHU controller	Summer/Writer comp.	Standard	SN_Reset		1x0012	xxx	B17	xxx	0	1		0 Summer night cooling is active
AHU controller	Summer/Writer comp.	Standard	SWTC_MinComp		1x0013	xxx	B18	xxx	0	1		0 Reset parameters for summer night cooling (new calculation is initiated)
AHU controller	Summer/Writer comp.	Standard	SWTC_SumComp		1x0014	xxx	B19	xxx	0	1		0 Summer/Writer temperature compensation is active
AHU controller	Summer/Writer comp.	Standard	SW_Status		1x0015	xxx	B10	xxx	0	1		0 Summer/Writer actual status
Damper, Recirculation	Recirculation heat	Standard	RecircStatus		1x0016	xxx	B11	xxx	0	1		0 ON -> winter operation ("1")
Heat exchanger	Recirculation heat	Standard	Exc_Exercise		1x0017	xxx	B12	xxx	0	1		0 Recirculation status
Fan	Status	Standard	ExcProtect		1x0018	xxx	B13	xxx	0	1		0 Exercising heat exchanger -> Active
Fan	Status	Standard	SupDuctMinFlow		1x0019	xxx	B14	xxx	0	1		0 Signal to cross-flow exchanger reduced (frost protection)
Fan	Status	Standard	SupDuctMinFlow		1x0020	xxx	B16	xxx	0	1		0 Supply duct pressure controller reduced to min. flow
Fan	Status	Standard	ExdRPMPeriod		1x0021	xxx	B17	xxx	0	1		0 Supply duct pressure controller increased to max. flow
Heat exchanger	Status	Standard	ExdRPMPeriod		1x0023	xxx	B18	xxx	0	1		0 Extract duct pressure controller increased to max. flow
Heating coil 1, Water	Status	Standard	HW1FrostReg		1x0024	xxx	B19	xxx	0	1		0 Cooling recovery -> status
Heating coil 1, Water	Status	Standard	HW1FrostReg		1x0025	xxx	B20	xxx	0	1		0 Circulation pump on heating coil. Frost protection -> Active
Cooling coil	Status	Standard	CW_PumpExer		1x0026	4.18	B21	4.18	0	1		0 Circulation pump on heating coil. Pump exercising -> Active
Heating coil 1, Electric	Status	Standard	TempRegMinSup		1x0027	xxx	B22	xxx	0	1		0 CoolWater/Cool PumpExercise active
AHU controller	Status	Standard	TempRegMaxSup		1x0028	xxx	B23	xxx	0	1		0 Signal to heating coil reduced (insufficient flow) -> Active
Heat exchanger	Status	Standard	BatEXC_Exer		1x0030	xxx	B26	xxx	0	1		0 Only active when TempRegMode is 1 or 2 (room temp. control)
Cooling coil	Status	Standard	Cool_RE1		1x0032	xxx	B27	xxx	0	1		0 Only active when TempRegMode is 1 or 2 (room temp. control)
Heat exchanger	Status	Standard	BatEXC_PumpRE		1x0033	xxx	B28	xxx	0	1		0 Pump exercising -> Active
AHU controller	Alarm	Standard	AltActive		1x0034	xxx	B29	xxx	0	1		0 Circulation pump on heat (recovery) coil:
AHU controller	Alarm	Standard	Alt_RE2		1x0036	xxx	B31	xxx	0	1		0 Pump -> Running
AHU controller	Alarm	Standard	Alt_Sig		1x0037	xxx	B32	xxx	0	1		0 At least one active alarm
Heating coil, Electric	Alarm	Standard	Alt_SmokeSig		1x0038	xxx	B33	xxx	0	1		0 Alarm relay 2 (BAlarm)
Heating coil, Electric	Alarm	Standard	Alt_OverHibAc		1x0039	xxx	B219	xxx	0	1		0 Fire alarm signal (room sensor)
Filter	Alarm	Standard	AltBattCont		1x0040	xxx	B220	xxx	0	1		0 Smoke/fire alarm signal (duct sensor)
Filter	Alarm	Standard	FilSupAlarm		1x0041	xxx	B195	xxx	0	1		0 Electric coil: High temperature alarm signal
Heat exchanger	Alarm	Standard	FilEsdAlarm		1x0042	xxx	B196	xxx	0	1		0 Electric coil: Relay stuck
Heating coil 2, Electric	Alarm	Standard	FilEsdPowerRed		1x0045	xxx	NA	NA	0	1		0 Filter alarm for supply filter
Filter	Alarm	Standard	FilEsdAlarm		1x0048	4.18	B253	4.18	0	1		0 Filter alarm for extract filter (pressure drop above set limit)
Temp. Supply	Alarm	Standard	SupTempSensErr		1x0050	xxx	B198	xxx	0	1		0 Filter Alarm for Sup2-Filter (pressure above Limit)
Temp. Extract	Alarm	Standard	ExtTempSensErr		1x0051	xxx	B197	xxx	0	1		0 Supply temperature sensor - sensor fault
Temp. Out door	Alarm	Standard	OutDoorSensErr		1x0052	xxx	B199	xxx	0	1		0 Extract temperature sensor - sensor fault
												0 Outdoor temperature sensor - sensor fault

Temp. Room	Alarm	Standard	RoomSensErr	RoomSensErr	B40	xxx	xxx	0	1	1	Room temperature sensor – sensor fault
Temp. Exhaust	Alarm	Standard	ExhaustSensErr	ExhaustSensErr	B41	xxx	xxx	0	1	1	Exhaust temperature sensor – sensor fault
Heating coil 1, Water	Alarm	Standard	HW1SensErr	HW1SensErr	B42	xxx	xxx	0	1	1	Heating coil temperature sensor – sensor fault
Heat exchanger	Alarm	Standard	BatEXC_SensErr	BatEXC_SensErr	B43	xxx	xxx	0	1	1	Heat recovery coil temperature sensor – sensor fault
Heating coil 1, Water	Alarm	Standard	HW1FrostAlr	HW1FrostAlr	B44	xxx	xxx	0	1	1	Heating coil frost alarm
Cooling coil	Alarm	Standard	Cool_SumAlarm	Cool_SumAlarm	B45	xxx	xxx	0	1	1	Cooling shared alarm
Heating coil 2, Water	Alarm	Standard	Cool_LowAlarm	Cool_LowAlarm	B46	xxx	xxx	0	1	1	Cooling digital alarm 2 input
Cooling coil	Alarm	Standard	Cool_Di3_Alarm	Cool_Di3_Alarm	B47	xxx	xxx	0	1	1	Cooling digital alarm 3 input
Cooling coil	Alarm	Standard	Cool_Di4_Alarm	Cool_Di4_Alarm	B48	xxx	xxx	0	1	1	Cooling digital alarm 4 input
Fan, Supply drive	Alarm	Standard	SupMotorON	SupMotorON	B49	xxx	xxx	0	1	1	Supply motor ON/OFF
Fan, Supply drive	Alarm	Standard	SupMotorAlarm	SupMotorAlarm	B50	xxx	xxx	0	1	1	Supply motor low voltage alarm (only with OJ-FCC)
Fan, Supply drive	Alarm	Standard	FCSupMtrAVb	FCSupMtrAVb	B51	4.18	4.18	0	1	1	Supply motor high voltage alarm (only with OJ-FCC)
Fan, Supply drive	Alarm	Standard	FCSupMtrAVv	FCSupMtrAVv	B52	xxx	xxx	0	1	1	Supply motor high current alarm (only with OJ-FCC), motor protection
Fan, Supply drive	Alarm	Standard	FCSupMtrAHi	FCSupMtrAHi	B53	xxx	xxx	0	1	1	Supply motor phase fault alarm (only with OJ-FCC)
Fan, Supply drive	Alarm	Standard	FCSupMtrAHi	FCSupMtrAHi	B54	xxx	xxx	0	1	1	Supply motor phase fault alarm (only with OJ-FCC)
Fan, Supply drive	Alarm	Standard	FCSupMtrAHi	FCSupMtrAHi	B55	xxx	xxx	0	1	1	Supply motor high current limit, short-circuit protection (only with OJ-FCC)
Fan, Supply drive	Alarm	Standard	FCSupMtrAHi	FCSupMtrAHi	B56	NA	NA	0	1	1	Supply motor V Rippel Alarm
Fan, Supply drive	Alarm	Standard	FCSupMtrAHi	FCSupMtrAHi	B57	xxx	xxx	0	1	1	Extract motor ON/OFF
Fan, Supply drive	Alarm	Standard	FCSupMtrAHi	FCSupMtrAHi	B58	4.18	4.18	0	1	1	Extract motor low voltage alarm
Fan, Supply drive	Alarm	Standard	FCSupMtrAHi	FCSupMtrAHi	B59	xxx	xxx	0	1	1	Extract motor low voltage alarm
Fan, Extract drive	Alarm	Standard	FCSupMtrAHi	FCSupMtrAHi	B60	xxx	xxx	0	1	1	Extract motor high voltage alarm
Fan, Extract drive	Alarm	Standard	FCSupMtrAHi	FCSupMtrAHi	B61	xxx	xxx	0	1	1	Extract motor high current alarm
Fan, Extract drive	Alarm	Standard	FCSupMtrAHi	FCSupMtrAHi	B62	xxx	xxx	0	1	1	Extract motor temperature alarm
Fan, Extract drive	Alarm	Standard	FCSupMtrAHi	FCSupMtrAHi	B63	xxx	xxx	0	1	1	Extract motor temperature alarm (only with OJ-FCC)
Fan, Extract drive	Alarm	Standard	FCSupMtrAHi	FCSupMtrAHi	B64	xxx	xxx	0	1	1	Extract motor phase fault alarm
Fan, Extract drive	Alarm	Standard	FCSupMtrAHi	FCSupMtrAHi	B65	xxx	xxx	0	1	1	Extract motor ripple voltage alarm
Fan, Extract drive	Alarm	Standard	FCSupMtrAHi	FCSupMtrAHi	B66	4.18	4.18	0	1	1	Extract motor V Rippel Alarm
Fan, Extract drive	Alarm	Standard	FCSupMtrAHi	FCSupMtrAHi	B67	xxx	xxx	0	1	1	Rotary heat exchanger – motor control ON/OFF (only with OJ-RHX2M)
Heat exchanger drive	Status	Standard	EXC_ON	EXC_ON	B68	xxx	xxx	0	1	1	Rotary heat exchanger – reset signal (only with OJ-RHX2M)
Heat exchanger drive	Status	Standard	EXC_Reset	EXC_Reset	B69	xxx	xxx	0	1	1	Rotary heat exchanger – rotation direction (only with OJ-RHX2M)
Heat exchanger drive	Status	Standard	EXC_Direction	EXC_Direction	B70	xxx	xxx	0	1	1	Rotary heat exchanger – rotation alarm (only with OJ-RHX2M)
Heat exchanger drive	Alarm	Standard	EXC_RotAlarm	EXC_RotAlarm	B71	xxx	xxx	0	1	1	Rotary heat exchanger – low voltage alarm (only with OJ-RHX2M)
Heat exchanger drive	Alarm	Standard	EXC_VioAlarm	EXC_VioAlarm	B72	xxx	xxx	0	1	1	Rotary heat exchanger – high voltage alarm (only with OJ-RHX2M)
Heat exchanger drive	Alarm	Standard	EXC_VioAlarm	EXC_VioAlarm	B73	xxx	xxx	0	1	1	Rotary heat exchanger – high current alarm (only with OJ-RHX2M)
Heat exchanger drive	Alarm	Standard	EXC_ThkAlarm	EXC_ThkAlarm	B74	xxx	xxx	0	1	1	Rotary heat exchanger – temperature alarm
Heat exchanger drive	Alarm	Standard	EXC_TempAlarm	EXC_TempAlarm	B75	xxx	xxx	0	1	1	Rotary heat exchanger – rotation signal (only with OJ-RHX2M)
Heat exchanger drive	Status	Standard	EXC_RotSignal	EXC_RotSignal	B76	xxx	xxx	0	1	1	Rotary heat exchanger – torque overload (only with OJ-RHX2M)
Heat exchanger drive	Alarm	Standard	EXC_Overload	EXC_Overload	B77	xxx	xxx	0	1	1	Pre-heating coil - Output reduction, low air volume
Preheater coil, electric	Status	Standard	PH_PwrReduce	PH_PwrReduce	B93	xxx	xxx	0	1	1	Pre-heating coil - Relay for active heating/cooling
Preheater coil, water	Status	Standard	PHFrostRegAct	PHFrostRegAct	B89	xxx	xxx	0	1	1	Pre-heating coil - Frost protection active
Preheater coil, water	Status	Standard	PHHeatRelay	PHHeatRelay	B91	xxx	xxx	0	1	1	Pre-heating coil - Overheating fault
Preheater coil, electric	Alarm	Standard	PHFRzAlCool	PHFRzAlCool	NA	NA	NA	0	1	1	Pre-heating coil - Return sensor - Sensor fault
Preheater coil, electric	Alarm	Standard	PH_Overheat	PH_Overheat	B92	xxx	xxx	0	1	1	Pre-heater - heat relay 2
Preheater coil, water	Alarm	Standard	PH_Overheat	PH_Overheat	B94	xxx	xxx	0	1	1	Pre-heater Pump exercise active
Preheater coil, water	Alarm	Standard	PH_Overheat	PH_Overheat	B95	xxx	xxx	0	1	1	Status bit De-icing of heatpump
Preheater coil, water	Alarm	Standard	PH_Overheat	PH_Overheat	B96	xxx	xxx	0	1	1	Cooling stopped by room temperature
Preheater coil, water	Status	Standard	PHHeatRelay2	PHHeatRelay2	B226	xxx	xxx	0	1	1	Cool recovery over damper active
Preheater coil, water	Status	Standard	PHHeatRelay2	PHHeatRelay2	B227	xxx	xxx	0	1	1	Alarm - pressure transmitter not calibrated (for guard rotor heat exchanger)
Preheater coil, water	Status	Standard	PHHeatRelay2	PHHeatRelay2	B228	xxx	xxx	0	1	1	Alarm - rotor heat exchanger blocked by dirt (high pressure over rotor wheel)
Preheater coil, water	Status	Standard	PHHeatRelay2	PHHeatRelay2	B229	xxx	xxx	0	1	1	Alarm - Heat recovery efficiency below alarm limit
Preheater coil, water	Status	Standard	PHHeatRelay2	PHHeatRelay2	B230	xxx	xxx	0	1	1	Heating coil 2 - Frost control active
Preheater coil, water	Status	Standard	PHHeatRelay2	PHHeatRelay2	B231	xxx	xxx	0	1	1	Heating coil 2 - Frost control active
Preheater coil, water	Status	Standard	PHHeatRelay2	PHHeatRelay2	B232	xxx	xxx	0	1	1	Heating relay2 (ExtMod-Reserve)
Preheater coil, water	Status	Standard	PHHeatRelay2	PHHeatRelay2	B233	xxx	xxx	0	1	1	Heating relay22 (ExtMod-Reserve)
Preheater coil, water	Status	Standard	PHHeatRelay2	PHHeatRelay2	B234	xxx	xxx	0	1	1	Heating relay23 (ExtMod-Reserve)
Preheater coil, water	Status	Standard	PHHeatRelay2	PHHeatRelay2	B235	xxx	xxx	0	1	1	Heating relay24 (ExtMod-Reserve)
Preheater coil, water	Status	Standard	PHHeatRelay2	PHHeatRelay2	B236	xxx	xxx	0	1	1	Heating relay25 (ExtMod-Reserve)
Preheater coil, water	Status	Standard	PHHeatRelay2	PHHeatRelay2	B237	xxx	xxx	0	1	1	Add on sensor 1 - Sensor fault
Preheater coil, water	Status	Standard	PHHeatRelay2	PHHeatRelay2	B238	xxx	xxx	0	1	1	Add on sensor 2 - Sensor fault
Preheater coil, water	Status	Standard	PHHeatRelay2	PHHeatRelay2	B239	xxx	xxx	0	1	1	Add on sensor 3 - Sensor fault
Preheater coil, water	Status	Standard	PHHeatRelay2	PHHeatRelay2	B240	xxx	xxx	0	1	1	Add on sensor 4 - Sensor fault
Preheater coil, water	Status	Standard	PHHeatRelay2	PHHeatRelay2	B241	xxx	xxx	0	1	1	Frost alarm fluid-coupled coil (CoilEXC)
Preheater coil, water	Status	Standard	PHHeatRelay2	PHHeatRelay2	B242	xxx	xxx	0	1	1	Humidifier alarm status
Preheater coil, water	Status	Standard	PHHeatRelay2	PHHeatRelay2	B243	xxx	xxx	0	1	1	Humidifier alarm status
Preheater coil, water	Status	Standard	PHHeatRelay2	PHHeatRelay2	B244	xxx	xxx	0	1	1	Combi coil - Frost protection active
Preheater coil, water	Status	Standard	PHHeatRelay2	PHHeatRelay2	B245	xxx	xxx	0	1	1	Combi coil - Frost protection active
Preheater coil, water	Status	Standard	PHHeatRelay2	PHHeatRelay2	B246	xxx	xxx	0	1	1	Combi coil - Heating relay active
Preheater coil, water	Status	Standard	PHHeatRelay2	PHHeatRelay2	B247	xxx	xxx	0	1	1	Combi coil - Heating relay active
Preheater coil, water	Status	Standard	PHHeatRelay2	PHHeatRelay2	B248	xxx	xxx	0	1	1	Special customer code: Biking Heat2 in recirculation mode = Activated
Preheater coil, water	Status	Standard	PHHeatRelay2	PHHeatRelay2	B249	xxx	xxx	0	1	1	Special customer code: Flow changed caused Heat2 is activated
Preheater coil, water	Status	Standard	PHHeatRelay2	PHHeatRelay2	B250	xxx	xxx	0	1	1	Special customer code: Status low flow during 100% recirculation
Preheater coil, water	Status	Standard	PHHeatRelay2	PHHeatRelay2	B251	xxx	xxx	0	1	1	Special customer code: Recirculation damper is closed
Preheater coil, water	Status	Standard	PHHeatRelay2	PHHeatRelay2	B252	xxx	xxx	0	1	1	Special customer code: Limiting Heat2 is not activated
Preheater coil, water	Status	Standard	PHHeatRelay2	PHHeatRelay2	B253	xxx	xxx	0	1	1	Special customer code: Limiting Heat2 is not activated
Preheater coil, water	Status	Standard	PHHeatRelay2	PHHeatRelay2	B254	xxx	xxx	0	1	1	Max. raise-fall-time is activated
Preheater coil, water	Status	Standard	PHHeatRelay2	PHHeatRelay2	B255	xxx	xxx	0	1	1	

Alarm	Special	AI - Fire Evac Dmp	4.22	0	1	Alarm smoke evacuation damper is activated
Fan, Supply drive 2	Special	EC2supMAV/Dmp	B1277	0	1	Alarm smoke evacuation damper is activated
Fan, Supply drive 2	Special	EC2supMAV/Hi	B1120	0	1	OJEC-DV 2-supply air motor voltage low alarm
Fan, Supply drive 2	Special	EC2supMAV/Lo	B1121	0	1	OJEC-DV 2-supply air motor voltage high alarm
Fan, Supply drive 2	Special	EC2supMAV/Hi	B1122	0	1	OJEC-DV 2-supply air motor high current limit alarm
Fan, Supply drive 2	Special	EC2supMAV/Tmp	B1123	0	1	OJEC-DV 2-supply air motor temperature alarm
Fan, Supply drive 2	Special	EC2supMAV/Blk	B1126	0	1	OJEC-DV 2-supply air motor alarm for blocked rotor
Fan, Supply drive 2	Special	EC2supMHi/Lim	B1119	0	1	OJEC-DV 2-supply air motor high current limit, shortcircuit protection
Fan, Extract drive 2	Special	EC2extMAV/Hi	B1128	0	1	OJEC-DV 2-extract/exhaust motor voltage low alarm
Fan, Extract drive 2	Special	EC2extMAV/Lo	B1129	0	1	OJEC-DV 2-extract/exhaust motor voltage high alarm
Fan, Extract drive 2	Special	EC2extMAV/Hi	B1130	0	1	OJEC-DV 2-extract/exhaust motor high current limit alarm
Fan, Extract drive 2	Special	EC2extMAV/Tmp	B1131	0	1	OJEC-DV 2-extract/exhaust motor temperature alarm
Fan, Extract drive 2	Special	EC2extMAV/Phs	B1132	0	1	OJEC-DV 2-extract/exhaust motor alarm for phase error
Fan, Extract drive 2	Special	EC2extMR/Blk	B1134	0	1	OJEC-DV 2-extract/exhaust motor alarm for blocked rotor
Fan, Extract drive 2	Special	EC2extMR/Hi	B1135	0	1	OJEC-DV 2-extract/exhaust motor high current limit, shortcircuit protection
Fan, Supply drive	Standard	AFTH4R2020m	B1155	0	1	TH-4R2020 sensor
Fan, Supply drive	Standard	ECsupMRAV/Hi	B1138	0	1	OJEC-DV-supply air motor voltage low alarm
Fan, Supply drive	Standard	ECsupMRAV/Lo	B1139	0	1	OJEC-DV-supply air motor voltage high alarm
Fan, Supply drive	Standard	ECsupMRAV/Hi	B1140	0	1	OJEC-DV-supply air motor high current limit alarm
Fan, Supply drive	Standard	ECsupMRAV/Tmp	B1141	0	1	OJEC-DV-supply air motor temperature alarm
Fan, Supply drive	Standard	ECsupMRAV/Phs	B1142	0	1	OJEC-DV-supply air motor alarm for phase error
Fan, Supply drive	Standard	ECsupMR/Blk	B1144	0	1	OJEC-DV-supply air motor alarm for blocked rotor
Fan, Supply drive	Standard	ECsupMR/Hi	B1137	0	1	OJEC-DV-supply air motor high current limit, shortcircuit protection
Fan, Extract drive	Standard	ECextMRAV/Hi	B1147	0	1	OJEC-DV-extract/exhaust motor voltage high alarm
Fan, Extract drive	Standard	ECextMRAV/Lo	B1148	0	1	OJEC-DV-extract/exhaust motor voltage low alarm
Fan, Extract drive	Standard	ECextMRAV/Hi	B1149	0	1	OJEC-DV-extract/exhaust motor high current limit alarm
Fan, Extract drive	Standard	ECextMRAV/Tmp	B1150	0	1	OJEC-DV-extract/exhaust motor temperature alarm
Fan, Extract drive	Standard	ECextMR/Blk	B1152	0	1	OJEC-DV-extract/exhaust motor alarm for phase error
Fan, Extract drive	Standard	ECextMR/Hi	B1154	0	1	OJEC-DV-extract/exhaust motor high current limit, shortcircuit protection
IO Extension module	Standard	AIEXIO1_Comm	B1168	0	1	Extension IO-Module no. 1 - communication error
IO Extension module	Standard	AIEXIO2_Comm	B1169	0	1	Extension IO-Module no. 2 - communication error
IO Extension module	Standard	AIEXIO3_Comm	B1170	0	1	Extension IO-Module no. 3 - communication error
IO Extension module	Standard	AIEXIO4_Comm	B1171	0	1	Extension IO-Module no. 4 - communication error
IO Extension module	Standard	AIEXIO5_Comm	B1162	0	1	Extension IO-Module no. 5 - communication error
IO Extension module	Standard	AIEXIO6_Comm	B1163	0	1	Extension IO-Module no. 6 - communication error
IO Extension module	Standard	AIEXIO7_Comm	B1164	0	1	Extension IO-Module no. 7 - communication error
IO Extension module	Standard	AIEXIO8_Comm	B1165	0	1	Extension IO-Module no. 8 - communication error
Temp. sensor	Standard	AIAdiOISens1	B1167	0	1	Addon sensor 1 - Sensor error
Temp. sensor	Standard	AIAdiOISens2	B1168	0	1	Addon sensor 2 - Sensor error
Temp. sensor	Standard	AIAdiOISens3	B1169	0	1	Addon sensor 3 - Sensor error
Temp. sensor	Standard	AIAdiOISens4	B1170	0	1	Addon sensor 4 - Sensor error
Combi coil	Standard	RCHRFActive	B1174	0	1	Active
Combi coil	Standard	OmNenChIMB	B1175	0	1	CombiCoil enable Heat/Cool ctrl via MB
Fan, Supply drive	Standard	Chm2CoolRel	B1173	0	1	Combi coil; Cooling relay no. 2 active
Fan, Supply drive 2	Standard	ECsupEEP_Err	B1178	0	1	Supply air fan EEPROM error
Fan, Extract drive	Standard	EC2extEEP_Err	B1179	0	1	Supply air fan 2 EEPROM error
Fan, Extract drive 2	Standard	EC2extEEP_Err	B1180	0	1	Exhaust air fan EEPROM error
Temp. sensor	Standard	UthD40	B1181	0	1	TH-D40 communication error
Temp. sensor	Standard	UthD40R	B1182	0	1	TH-D40 communication error
AHU controller	Standard	AIHFirmAStop	B1203	0	1	Fire main stop
Damper, Smoke evac.	Standard	AISmokeEvac	B1204	0	1	Smoke evacuation activated
Temp. Room	Standard	BMSRoomTOOR	B1201	0	1	BMS room sensor out of range
Temp. Out door	Standard	BMSOutDOOR	B1202	0	1	BMS outdoor temperature out of range
Fan, Smoke evac.	Standard	AISmokeEvacFan	B1205	0	1	Smoke evacuation fan alarm
Damper, Fresh air	Standard	StAirRel	B1206	0	1	Output for outdoor air/exhaust air active
Damper, Supply air	Standard	StAirSupRel	B1207	0	1	Output for recirculation damper active
Temp. Room	Standard	ECsupSensErr	B1209	0	1	Temperature sensor pre-heater - sensor error
Preheater coil, water	Standard	PHTempSensErr	B1210	0	1	Temperature sensor pre-heater - sensor error
Cooling coil	Standard	CW_TSensErr	B1211	0	1	Cooling water supply temperature - sensor error
Heating coil 1, Electric	Standard	Heat_RE28	B1217	0	1	Heating relay/28 (EXMod-Reserve)
Combi coil	Standard	EL2_OverHbAc	B1218	0	1	Electric coil 2: High temperature alarm signal
Heating coil 2, Electric	Standard	AIRebZC-contact	B1222	0	1	Electric coil 2: Relay stuck
Filter	Standard	OUHFANOn	B1223	0	1	Alarm - Time is out for filter change supply air filter
Filter	Standard	OUHFANOff	B1224	0	1	Alarm - Time is out for filter change exhaust air filter
Fan	Standard	FINChIDrv	B1227	0	1	0 Filter Calibration press data DYNAMICMODE ONLY
Fan	Standard	EXDfMPerIOD	B1228	0	1	0 Input for forced medium speed
Fan, Supply drive	Standard	FCAlSupPolIm	B1229	0	1	Alarm - Supply air fan, Power limit
Fan, Extract drive	Standard	FCAlExpPolIm	B1230	0	1	Alarm - Exhaust air fan, Power limit
Fan, Supply drive	Standard	FCAlSupDRBlk	B1231	0	1	Alarm - Supply air fan, DV-FC Rotor blocked
Fan, Extract drive	Standard	FCAlExpDRBlk	B1232	0	1	Alarm - Exhaust air fan, DV-FC Rotor blocked
Fan, Supply drive 2	Standard	DVAIExpStop	B1235	0	1	Alarm - Supply air fan 2, High Current Stop
Fan, Supply drive 2	Standard	DVAISupStop	B1236	0	1	Alarm - Supply air fan 2, High Current Stop
Fan, Extract drive 2	Standard	DVAIExpStop	B1237	0	1	Alarm - Exhaust air fan 2, High Current Stop
Fan, Extract drive 2	Standard	DVAISupStop	B1238	0	1	Alarm - Exhaust air fan 2, High Current Stop
Combi coil	Standard	OmHCooSState	B1239	0	1	Status combi coil = Heating
Preheater coil, electric	Standard	Pre_OverHbAc	B1240	0	1	Alarm = over heating pre-heater
Fan, Supply drive	Standard	AIIPHContact	B1241	0	1	Alarm OJEC-DV supply air = High IO current
Fan, Extract drive	Standard	EC2extHIOAR	B1242	0	1	Alarm OJEC-DV extract air = High IO current
Fan, Supply drive 2	Standard	EC2extHIOAR	B1243	0	1	Alarm OJEC-DV supply air = High IO current
Fan, Extract drive 2	Standard	EC2extHIOAR	B1244	0	1	Alarm OJEC-DV extract air = High IO current
CVM Mini Meter	Standard	AIComMVMMini	NA	0	1	Communication CVM Mini Meter
CVM Mini Meter	Standard	AIComMVMCool	NA	0	1	Communication CVM Mini Cool Meter
Fan, supply	Standard	AIISupFanStop	B1245	0	1	B-AV SupFan is stopped
HMI display	Standard	AIComHM20	NA	0	1	A-AV Comm Error HM20
Damper, Smoke evac.	Standard	AIISMVAcDmp	B1246	0	1	Smoke Evac Damper not in position
Damper, Smoke evac.	Standard	AIISMBPassDmp	B1247	0	1	Smoke Bypass Damper not in position

Zone 4	Status	Standard	ZM4_CO2VOC	4.19	A1186	4.19	0	5000	ZoneModule 4 - CO2VOC Value [ppm]
CVM Meter	Status	Standard	ZM4_RH	4.19	A1187	4.19	0	10000	ZoneModule 4 - RH Value [1/100%rh]
CVM Meter	Status	Standard	CVMVollageL1	4.21	A1188	4.21	0	5200	CVM Phase L1 to neutral (N) voltage [V]
CVM Meter	Status	Standard	CVMCurrentL1	4.21	A1189	4.21	0	6000	CVM Current L1 value [A]
CVM Meter	Status	Standard	CVMActPowerL1	4.21	A1200	4.21	0	65535	CVM Active power [kW]
CVM Meter	Status	Standard	CVMVollageL2	4.21	A1201	4.21	0	5200	CVM Phase L2 to neutral (N) voltage [V]
CVM Meter	Status	Standard	CVMCurrentL2	4.21	A1202	4.21	0	6000	CVM Current L2 value [A]
CVM Meter	Status	Standard	CVMActPowerL2	4.21	A1203	4.21	0	65535	CVM Active power [kW]
CVM Meter	Status	Standard	CVMVollageL3	4.21	A1204	4.21	0	6000	CVM Phase L3 to neutral (N) voltage [V]
CVM Meter	Status	Standard	CVMCurrentL3	4.21	A1205	4.21	0	6000	CVM Current L3 value [A]
CVM Meter	Status	Standard	CVMActPowerL3	4.21	A1206	4.21	0	65535	CVM Active power three phases [kW]
CVM Meter	Status	Standard	CVMActPowerL1L2	4.21	A1207	4.21	0	65535	CVM Active power three phases [kW]
CVM Meter	Status	Standard	CVMFrequency	4.21	A1208	4.21	0	600	CVM Frequency value [Hz]
CVM Meter	Status	Standard	CVMVollageL1L2	4.21	A1209	4.21	0	5200	CVM Phase-phase Voltage L1 to L2 [V]
CVM Meter	Status	Standard	CVMVollageL2L3	4.21	A1210	4.21	0	5200	CVM Phase-phase Voltage L2 to L3 [V]
CVM Meter	Status	Standard	CVMVollageL1L3	4.21	A1211	4.21	0	5200	CVM Phase-phase Voltage L3 to L1 [V]
CVM Meter	Status	Standard	CVMCurrentL1L2	5.07	A1236	5.07	0	65535	CVM Current value [mA] - Note: Values are calculated as (High byte) x 65536 + (Low byte) - High and low bytes = Integer
CVM Meter	Status	Standard	CVMCurrentL2L3	5.07	A1237	5.07	0	65535	CVM Current value [mA] - Note: Values are calculated as (High byte) x 65536 + (Low byte) - High and low bytes = Integer
CVM Meter	Status	Standard	CVMCurrentL1L3	5.07	A1238	5.07	0	65535	CVM Current value [mA] - Note: Values are calculated as (High byte) x 65536 + (Low byte) - High and low bytes = Integer
CVM Meter	Status	Standard	CVMActPowerL2L3	5.07	A1239	5.07	0	65535	CVM Active power [W] - Note: Values are calculated as (High byte) x 65536 + (Low byte) - High and low bytes = Integer
CVM Meter	Status	Standard	CVMActPowerL1L2	5.07	A1240	5.07	0	65535	CVM Active power [W] - Note: Values are calculated as (High byte) x 65536 + (Low byte) - High and low bytes = Integer
CVM Meter	Status	Standard	CVMActPowerL1L3	5.07	A1241	5.07	0	65535	CVM Active power three phases [W] - Note: Values are calculated as (High byte) x 65536 + (Low byte) - High and low bytes = Integer
CVM Meter	Status	Standard	CVMActPowerL1H	5.07	A1242	5.07	0	65535	CVM Active energy three phases [Wh] - Note: Values are calculated as (High byte) x 65536 + (Low byte) - High and low bytes = Integer
CVM Meter	Status	Standard	CVMActPowerL2H	5.07	A1243	5.07	0	65535	CVM Active energy three phases [Wh] - Note: Values are calculated as (High byte) x 65536 + (Low byte) - High and low bytes = Integer
CVM Meter	Status	Standard	CVMActPowerL3H	5.07	A1244	5.07	0	65535	CVM Active energy three phases [Wh] - Note: Values are calculated as (High byte) x 65536 + (Low byte) - High and low bytes = Integer
CVM Meter	Status	Standard	CVMActPowerL1H2	5.07	A1245	5.07	0	65535	CVM Active energy three phases [Wh] - Note: Values are calculated as (High byte) x 65536 + (Low byte) - High and low bytes = Integer
CVM Meter	Status	Standard	CVMActPowerL2H2	5.07	A1246	5.07	0	65535	CVM Active energy three phases [Wh] - Note: Values are calculated as (High byte) x 65536 + (Low byte) - High and low bytes = Integer
CVM Meter	Status	Standard	CVMActPowerL3H2	5.07	A1247	5.07	0	65535	CVM Active energy three phases [Wh] - Note: Values are calculated as (High byte) x 65536 + (Low byte) - High and low bytes = Integer
CVM Meter	Status	Standard	CVMActPowerL1H3	5.07	A1248	5.07	0	65535	CVM Active energy three phases [Wh] - Note: Values are calculated as (High byte) x 65536 + (Low byte) - High and low bytes = Integer
CVM Meter	Status	Standard	CVMActPowerL2H3	5.07	A1249	5.07	0	65535	CVM Active energy three phases [Wh] - Note: Values are calculated as (High byte) x 65536 + (Low byte) - High and low bytes = Integer
CVM Meter	Status	Standard	CVMActPowerL3H3	5.07	A1250	5.07	0	65535	CVM Active energy three phases [Wh] - Note: Values are calculated as (High byte) x 65536 + (Low byte) - High and low bytes = Integer
CVM Meter	Status	Standard	CVMActPowerL1H2L3	5.21	A1255	5.21	0	65535	CVM E3 Mini Active energy three phases [kWh] High byte - Note: Values are calculated as (High byte) x 65536 + (Low byte) - High and low bytes = Integer
CVM Meter	Status	Standard	CVMActPowerL2H2L3	5.21	A1256	5.21	0	65535	CVM E3 Mini Active energy three phases [kWh] High byte - Note: Values are calculated as (High byte) x 65536 + (Low byte) - High and low bytes = Integer
CVM Meter	Status	Standard	CVMActPowerL3H2L3	5.21	A1257	5.21	0	65535	CVM E3 Mini Active energy three phases [kWh] High byte - Note: Values are calculated as (High byte) x 65536 + (Low byte) - High and low bytes = Integer
CVM Meter	Status	Standard	CVMActPowerL1H2L3	5.21	A1258	5.21	0	65535	CVM E3 Mini Active energy three phases [kWh] Low byte - Note: Values are calculated as (High byte) x 65536 + (Low byte) - High and low bytes = Integer
CVM Meter	Status	Standard	CVMActPowerL2H2L3	5.21	A1259	5.21	0	65535	CVM E3 Mini Active energy three phases [kWh] Low byte - Note: Values are calculated as (High byte) x 65536 + (Low byte) - High and low bytes = Integer
CVM Meter	Status	Standard	CVMActPowerL3H2L3	5.21	A1260	5.21	0	65535	CVM E3 Mini Active energy three phases [kWh] Low byte - Note: Values are calculated as (High byte) x 65536 + (Low byte) - High and low bytes = Integer
CVM Meter	Status	Standard	CVMActPowerL1H2L3	5.21	A1261	5.21	0	65535	CVM E3 Mini Active energy three phases [kWh] Low byte - Note: Values are calculated as (High byte) x 65536 + (Low byte) - High and low bytes = Integer
CVM Meter	Status	Standard	CVMActPowerL2H2L3	5.21	A1262	5.21	0	65535	CVM E3 Mini Active energy three phases [kWh] Low byte - Note: Values are calculated as (High byte) x 65536 + (Low byte) - High and low bytes = Integer
CVM Meter	Status	Standard	CVMActPowerL3H2L3	5.21	A1263	5.21	0	65535	CVM E3 Mini Active energy three phases [kWh] Low byte - Note: Values are calculated as (High byte) x 65536 + (Low byte) - High and low bytes = Integer
CVM Meter	Status	Special	EBandActPow	NA	A1228	4.21	0	30000	Actual power (kW) electrical battery 1
CVM Meter	Status	Special	ECsupWIPowOut	NA	A1227	4.21	0	30000	Actual power (kW) Supply fan
CVM Meter	Status	Special	ECoolWIPowOut	NA	A1229	4.21	0	30000	Actual power (kW) Extract fan
CVM Meter	Status	Special	ECoolWIPowOut	NA	A1229	4.21	0	30000	Actual power (kW) Extract fan
AHU controller	Set point		ManDriftMode	x.xx	AV0	x.xx	0	7	0=Auto 1=Manual stop 2=Manual high 3=Manual medium 4=Manual low 5=Manual high 6=Manual medium 7=Caleander 8=pressure 9=flow 10=extract slave 11=supply/extract 12=pressure with extract slave 13=Green Zone 14=Green Zone slave 15=Constant speed 16=Setpoint for duct pressure, low supply [Pa] 17=Setpoint for duct pressure, high supply [Pa] 18=1500 Min. supply duct flow [l/s] or [m3/h] or [CFM] (Depending on the unit selection in the OJ-Air2Master)
AHU controller	Set point		MtrRegMode	x.xx	AV1	x.xx	0	12	0=Auto 1=Manual stop 2=Manual high 3=Manual medium 4=Manual low 5=Manual high 6=Manual medium 7=Caleander 8=pressure 9=flow 10=extract slave 11=supply/extract 12=pressure with extract slave 13=Green Zone 14=Green Zone slave 15=Constant speed 16=Setpoint for duct pressure, low supply [Pa] 17=Setpoint for duct pressure, high supply [Pa] 18=1500 Min. supply duct flow [l/s] or [m3/h] or [CFM] (Depending on the unit selection in the OJ-Air2Master)
Pressure	Set point	Pa	SupDuctPaLoSet	x.xx	AV2	x.xx	0	2000	50 Setpoint for low duct pressure, extract [Pa]
Pressure	Set point	Pa	SupDuctPaHiSet	x.xx	AV3	x.xx	0	2000	200 Setpoint for high duct pressure, extract [Pa]
Fan	Set point	l/s	SupDuctMinFlow	x.xx	AV4	x.xx	0	30000	1500 Min. supply duct flow [l/s] or [m3/h] or [CFM] (Depending on the unit selection in the OJ-Air2Master)
Fan	Set point	l/s	SupDuctMaxFlow	x.xx	AV5	x.xx	0	30000	10000 Max. supply duct flow P322
Pressure	Set point	Pa	ExtDuctPaLoSet	x.xx	AV6	x.xx	0	2000	50 Setpoint for low duct pressure, extract [Pa]
Pressure	Set point	Pa	ExtDuctPaHiSet	x.xx	AV7	x.xx	0	2000	200 Setpoint for high duct pressure, extract [Pa]
Fan	Set point	l/s	ExtDuctMinFlow	x.xx	AV8	x.xx	0	30000	1500 Min. extract duct flow [l/s] or [m3/h] or [CFM] (Depending on the unit selection in the OJ-Air2Master)
Fan	Set point	l/s	ExtDuctMaxFlow	x.xx	AV9	x.xx	0	30000	10000 Max. extract duct flow [l/s] or [m3/h] or [CFM] (Depending on the unit selection in the OJ-Air2Master)
Fan	Set point	l/s	SupLoSpeedSet	x.xx	AV10	x.xx	0	30000	3000 Setpoint for supply flow, low speed [l/s] or [m3/h] or [CFM] (Depending on the unit selection in the OJ-Air2Master)

Parameter	Unit	Value	Default	Min	Max	Resolution	Control	Standard	Notes
Fan	Set point	460012	xx	xx	xx	xx	SupHSpeedSet		7000 Setpoint for supply flow, high speed [l/s] or [m ³ /h] or [CFM] (Depending on the unit selection in the OJ-Air2Master)
Fan	Set point	460014	xx	xx	xx	xx	ExLSpeedSet		3000 Setpoint for extract flow, low speed [l/s] or [m ³ /h] or [CFM] (Depending on the unit selection in the OJ-Air2Master)
Fan	Set point	460015	xx	xx	xx	xx	ExHSpeedSet		7000 Setpoint for extract flow, high speed [l/s] or [m ³ /h] or [CFM] (Depending on the unit selection in the OJ-Air2Master)
Fan	Set point	460017	xx	xx	xx	xx	MtRegOffset		0 Supply/extract motor offset, slave and CO2 control [1/100%]
Fan	Set point	NA	NA	NA	NA	NA	MtRegOffset		0 Supply/extract motor offset, slave and CO2 control [1/100%]
Fan	Set point	460020	xx	xx	xx	xx	CO2_ExtP		1000 CO2 control: setpoint for low period (high CO2 value) [ppm]
CO2 sensor	Set point	460021	xx	xx	xx	xx	CO2_UserSetHP		1000 CO2 control: setpoint for high period (high CO2 value) [ppm]
CO2 sensor	Set point	460022	xx	xx	xx	xx	CO2_MinFlow		3000 CO2 control: min. flow [l/s] or [m ³ /h] or [CFM] (Depending on the unit selection in the OJ-Air2Master)
CO2 sensor	Set point	460023	xx	xx	xx	xx	CO2_MaxFlow		7000 CO2 control: max. flow [l/s] or [m ³ /h] or [CFM] (Depending on the unit selection in the OJ-Air2Master)
CO2 sensor	Set point	460024	xx	xx	xx	xx	CO2_SupFMOffs		0 CO2 control: supply flow offset [1/100%]
CO2 sensor	Alarm	460025	xx	xx	xx	xx	CO2_AirLimit		2000 CO2 concentration alarm limit setpoint [ppm]
CO2 sensor	Control	460026	xx	xx	xx	xx	CO2_PB		500 CO2 control: P-band [ppm]
CO2 sensor	Control	460027	xx	xx	xx	xx	CO2_T_Time		700 CO2 control: Time [sec]
Fan optimizer	Set point	460028	xx	xx	xx	xx	FAN_SupMinFlow		2000 Fan optimizer supply control: min. flow [l/s] or [m ³ /h] or [CFM] (Depending on the unit selection in the OJ-Air2Master)
Fan optimizer	Set point	460029	xx	xx	xx	xx	FAN_SupMaxFlow		10000 Fan optimizer extract control: min. flow [l/s] or [m ³ /h] or [CFM] (Depending on the unit selection in the OJ-Air2Master)
Fan optimizer	Set point	460030	xx	xx	xx	xx	FAN_ExtMinFlow		2000 Fan optimizer supply control: max. flow [l/s] or [m ³ /h] or [CFM] (Depending on the unit selection in the OJ-Air2Master)
Fan optimizer	Set point	460031	xx	xx	xx	xx	FAN_ExtMaxFlow		10000 Fan optimizer extract control: max. flow [l/s] or [m ³ /h] or [CFM] (Depending on the unit selection in the OJ-Air2Master)
Fan optimizer	Set point	460032	xx	xx	xx	xx	FAN_ExtFMOffs		0 Fan optimizer extract control: flow offset [1/100%]
Fan	Control	460033	xx	xx	xx	xx	ExMR_L_Time		50 Extract motor control: Time setpoint [sec]
Fan	Control	460034	xx	xx	xx	xx	ExMR_T_Time		8000 Supply motor speed setpoint in case of fire alarm [%]
Fan	Fire	460035	xx	xx	xx	xx	SupFlowFireSet		8000 Extract motor speed setpoint in case of fire alarm [%]
Fan	Control	460036	xx	xx	xx	xx	ExFlowFireSet		0 Run-on time, high speed [min]
Fan	Control	460037	xx	xx	xx	xx	HS_AlterRunSet		2500 Reduction of flow / percentage of setpoint [1/100%]
Fan	Set point	460040	xx	xx	xx	xx	FWTmpCmpSet		500 Reduction of flow / start temp. setpoint [1/100%]
Fan	Set point	460041	xx	xx	xx	xx	FWTmpCmpStop		-2000 Reduction of flow / stop temp. setpoint [1/100%]
Cooling, DX	Set point	460042	xx	xx	xx	xx	DXOUTTempMin1		1600 Min. outdoor temperature for activating DX relay no. 1
Cooling, DX	Set point	460043	xx	xx	xx	xx	DXOUTTempMin2		1600 Min. outdoor temperature for activating DX relay no. 2
Cooling, DX	Set point	460045	xx	xx	xx	xx	DXOUTTempMin3		1600 Min. outdoor temperature for activating DX relay no. 3
Cooling, DX	Set point	460046	xx	xx	xx	xx	DXOUTTempMin4		1600 Min. outdoor temperature for activating DX relay no. 4
AHU controller	Time	460050	xx	xx	xx	xx	TimeSwYear		Actual year
AHU controller	Time	460051	xx	xx	xx	xx	TimeSwMonth		Actual month
AHU controller	Time	460052	xx	xx	xx	xx	TimeSwDate		Actual date
AHU controller	Time	460053	xx	xx	xx	xx	TimeSwHour		Actual hour
AHU controller	Time	460054	xx	xx	xx	xx	TimeSwMinute		Actual minutes
AHU controller	Time	460055	xx	xx	xx	xx	TimeSwSecond		Actual seconds
AHU controller	Control	460056	xx	xx	xx	xx	ExDRSStartMin		0 Extended operation start — line (hours times 60 plus minutes)
AHU controller	Control	460057	xx	xx	xx	xx	ExDRSStartMin		0 Extended operation stop — day (0=Mon, 6=Sun)
AHU controller	Control	460058	xx	xx	xx	xx	ExDRSStopMin		0 Extended operation stop — time (hours times 60 plus minutes)
AHU controller	Control	460059	xx	xx	xx	xx	ExDRSStopMin		0 Timer program type (0,2)=Mon, Sun, 1=Mon, Fri=weekend, 2=all week
AHU controller	Week Schedule	460060	xx	xx	xx	xx	TimeSwStart0		480 Monday: First period start time [minutes after midnight]
AHU controller	Week Schedule	460061	xx	xx	xx	xx	TimeSwStart0		960 Tuesday: First period start time [minutes after midnight]
AHU controller	Week Schedule	460062	xx	xx	xx	xx	TimeSwStart0		360 Wednesday: First period start time [minutes after midnight]
AHU controller	Week Schedule	460063	xx	xx	xx	xx	TimeSwStart0		480 Thursday: First period start time [minutes after midnight]
AHU controller	Week Schedule	460064	xx	xx	xx	xx	TimeSwStart0		960 Friday: First period start time [minutes after midnight]
AHU controller	Week Schedule	460065	xx	xx	xx	xx	TimeSwStart0		360 Saturday: First period start time [minutes after midnight]
AHU controller	Week Schedule	460066	xx	xx	xx	xx	TimeSwStart0		0 Monday: Second period start time [minutes after midnight]
AHU controller	Week Schedule	460067	xx	xx	xx	xx	TimeSwStart0		0 Monday: Second period start time [minutes after midnight]
AHU controller	Week Schedule	460068	xx	xx	xx	xx	TimeSwStart0		0 Monday: Second period start time [minutes after midnight]
AHU controller	Week Schedule	460069	xx	xx	xx	xx	TimeSwStart0		0 Monday: Second period start time [minutes after midnight]
AHU controller	Week Schedule	460070	xx	xx	xx	xx	TimeSwStart0		0 Monday: Second period start time [minutes after midnight]
AHU controller	Week Schedule	460071	xx	xx	xx	xx	TimeSwStart0		0 Monday: Second period start time [minutes after midnight]
AHU controller	Week Schedule	460072	xx	xx	xx	xx	TimeSwStart0		0 Monday: Second period start time [minutes after midnight]
AHU controller	Week Schedule	460073	xx	xx	xx	xx	TimeSwStart0		0 Monday: Second period start time [minutes after midnight]
AHU controller	Week Schedule	460074	xx	xx	xx	xx	TimeSwStart0		0 Monday: Second period start time [minutes after midnight]
AHU controller	Week Schedule	460075	xx	xx	xx	xx	TimeSwStart0		0 Monday: Second period start time [minutes after midnight]
AHU controller	Week Schedule	460076	xx	xx	xx	xx	TimeSwStart0		0 Monday: Second period start time [minutes after midnight]
AHU controller	Week Schedule	460077	xx	xx	xx	xx	TimeSwStart0		0 Monday: Second period start time [minutes after midnight]
AHU controller	Week Schedule	460078	xx	xx	xx	xx	TimeSwStart0		0 Monday: Second period start time [minutes after midnight]
AHU controller	Week Schedule	460079	xx	xx	xx	xx	TimeSwStart0		0 Monday: Second period start time [minutes after midnight]
AHU controller	Week Schedule	460080	xx	xx	xx	xx	TimeSwStart0		0 Monday: Second period start time [minutes after midnight]
AHU controller	Week Schedule	460081	xx	xx	xx	xx	TimeSwStart0		0 Monday: Second period start time [minutes after midnight]
AHU controller	Week Schedule	460082	xx	xx	xx	xx	TimeSwStart0		0 Monday: Second period start time [minutes after midnight]
AHU controller	Week Schedule	460083	xx	xx	xx	xx	TimeSwStart0		0 Monday: Second period start time [minutes after midnight]
AHU controller	Week Schedule	460084	xx	xx	xx	xx	TimeSwStart0		0 Monday: Second period start time [minutes after midnight]
AHU controller	Week Schedule	460085	xx	xx	xx	xx	TimeSwStart0		0 Monday: Second period start time [minutes after midnight]
AHU controller	Week Schedule	460086	xx	xx	xx	xx	TimeSwStart0		0 Monday: Second period start time [minutes after midnight]
AHU controller	Week Schedule	460087	xx	xx	xx	xx	TimeSwStart0		0 Monday: Second period start time [minutes after midnight]
AHU controller	Week Schedule	460088	xx	xx	xx	xx	TimeSwStart0		0 Monday: Second period start time [minutes after midnight]
AHU controller	Week Schedule	460089	xx	xx	xx	xx	TimeSwStart0		0 Monday: Second period start time [minutes after midnight]
AHU controller	Week Schedule	460090	xx	xx	xx	xx	TimeSwStart0		0 Monday: Second period start time [minutes after midnight]
AHU controller	Week Schedule	460091	xx	xx	xx	xx	TimeSwStart0		0 Monday: Second period start time [minutes after midnight]
AHU controller	Week Schedule	460092	xx	xx	xx	xx	TimeSwStart0		0 Monday: Second period start time [minutes after midnight]
AHU controller	Week Schedule	460093	xx	xx	xx	xx	TimeSwStart0		0 Monday: Second period start time [minutes after midnight]
AHU controller	Week Schedule	460094	xx	xx	xx	xx	TimeSwStart0		0 Monday: Second period start time [minutes after midnight]
AHU controller	Week Schedule	460095	xx	xx	xx	xx	TimeSwStart0		0 Monday: Second period start time [minutes after midnight]
AHU controller	Week Schedule	460096	xx	xx	xx	xx	TimeSwStart0		0 Monday: Second period start time [minutes after midnight]
AHU controller	Week Schedule	460097	xx	xx	xx	xx	TimeSwStart0		0 Monday: Second period start time [minutes after midnight]
AHU controller	Week Schedule	460098	xx	xx	xx	xx	TimeSwStart0		0 Monday: Second period start time [minutes after midnight]
AHU controller	Week Schedule	460099	xx	xx	xx	xx	TimeSwStart0		0 Monday: Second period start time [minutes after midnight]
AHU controller	Week Schedule	460100	xx	xx	xx	xx	TimeSwStart0		0 Monday: Second period start time [minutes after midnight]

AHU controller	Standard	Week Schedule	400101	xx	AV89	xx	1	1440	960 Saturday: Second period stop time [minutes after midnight]
AHU controller	Standard	Week Schedule	400102	xx	AV90	xx	1	1440	1440 Sunday: Second period stop time [minutes after midnight]
AHU controller	Standard	Week Schedule	400103	xx	AV91	xx	1	1440	480 Monday: Third period stop time [minutes after midnight]
AHU controller	Standard	Week Schedule	400104	xx	AV92	xx	1	1440	360 Tuesday: Third period stop time [minutes after midnight]
AHU controller	Standard	Week Schedule	400105	xx	AV93	xx	1	1440	360 Wednesday: Third period stop time [minutes after midnight]
AHU controller	Standard	Week Schedule	400106	xx	AV94	xx	1	1440	480 Thursday: Third period stop time [minutes after midnight]
AHU controller	Standard	Week Schedule	400107	xx	AV95	xx	1	1440	480 Friday: Third period stop time [minutes after midnight]
AHU controller	Standard	Week Schedule	400108	xx	AV96	xx	1	1440	360 Saturday: Third period stop time [minutes after midnight]
AHU controller	Standard	Week Schedule	400109	xx	AV97	xx	1	1440	960 Sunday: Third period stop time [minutes after midnight]
AHU controller	Standard	Week Schedule	400110	xx	AV98	xx	1	1440	1440 Monday: Fourth period stop time [minutes after midnight]
AHU controller	Standard	Week Schedule	400111	xx	AV99	xx	1	1440	480 Tuesday: Fourth period stop time [minutes after midnight]
AHU controller	Standard	Week Schedule	400112	xx	AV100	xx	1	1440	360 Wednesday: Fourth period stop time [minutes after midnight]
AHU controller	Standard	Week Schedule	400113	xx	AV101	xx	1	1440	960 Thursday: Fourth period stop time [minutes after midnight]
AHU controller	Standard	Week Schedule	400114	xx	AV102	xx	1	1440	1440 Friday: Fourth period stop time [minutes after midnight]
AHU controller	Standard	Week Schedule	400115	xx	AV103	xx	1	1440	360 Saturday: Fourth period stop time [minutes after midnight]
AHU controller	Standard	Week Schedule	400116	xx	AV104	xx	0	6	360 Sunday: First period operating mode: 0=OFF, 1=low speed, 2=high speed, 6=medium speed
AHU controller	Standard	Week Schedule	400117	xx	AV105	xx	0	6	2 Monday: First period operating mode: 0=OFF, 1=low speed, 2=high speed, 6=medium speed
AHU controller	Standard	Week Schedule	400118	xx	AV106	xx	0	6	1 Tuesday: First period operating mode: 0=OFF, 1=low speed, 2=high speed, 6=medium speed
AHU controller	Standard	Week Schedule	400119	xx	AV107	xx	0	6	1 Wednesday: First period operating mode: 0=OFF, 1=low speed, 2=high speed, 6=medium speed
AHU controller	Standard	Week Schedule	400120	xx	AV108	xx	0	6	0 Thursday: First period operating mode: 0=OFF, 1=low speed, 2=high speed, 6=medium speed
AHU controller	Standard	Week Schedule	400121	xx	AV109	xx	0	6	2 Friday: First period operating mode: 0=OFF, 1=low speed, 2=high speed, 6=medium speed
AHU controller	Standard	Week Schedule	400122	xx	AV110	xx	0	6	1 Saturday: First period operating mode: 0=OFF, 1=low speed, 2=high speed, 6=medium speed
AHU controller	Standard	Week Schedule	400123	xx	AV111	xx	0	6	1 Sunday: First period operating mode: 0=OFF, 1=low speed, 2=high speed, 6=medium speed
AHU controller	Standard	Week Schedule	400124	xx	AV112	xx	0	6	0 Monday: Second period operating mode: 0=OFF, 1=low speed, 2=high speed, 6=medium speed
AHU controller	Standard	Week Schedule	400125	xx	AV113	xx	0	6	1 Tuesday: Second period operating mode: 0=OFF, 1=low speed, 2=high speed, 6=medium speed
AHU controller	Standard	Week Schedule	400126	xx	AV114	xx	0	6	1 Wednesday: Second period operating mode: 0=OFF, 1=low speed, 2=high speed, 6=medium speed
AHU controller	Standard	Week Schedule	400127	xx	AV115	xx	0	6	0 Thursday: Second period operating mode: 0=OFF, 1=low speed, 2=high speed, 6=medium speed
AHU controller	Standard	Week Schedule	400128	xx	AV116	xx	0	6	2 Friday: Second period operating mode: 0=OFF, 1=low speed, 2=high speed, 6=medium speed
AHU controller	Standard	Week Schedule	400129	xx	AV117	xx	0	6	1 Saturday: Second period operating mode: 0=OFF, 1=low speed, 2=high speed, 6=medium speed
AHU controller	Standard	Week Schedule	400130	xx	AV118	xx	0	6	1 Sunday: Second period operating mode: 0=OFF, 1=low speed, 2=high speed, 6=medium speed
AHU controller	Standard	Week Schedule	400131	xx	AV119	xx	0	6	0 Monday: Third period operating mode: 0=OFF, 1=low speed, 2=high speed, 6=medium speed
AHU controller	Standard	Week Schedule	400132	xx	AV120	xx	0	6	1 Tuesday: Third period operating mode: 0=OFF, 1=low speed, 2=high speed, 6=medium speed
AHU controller	Standard	Week Schedule	400133	xx	AV121	xx	0	6	1 Wednesday: Third period operating mode: 0=OFF, 1=low speed, 2=high speed, 6=medium speed
AHU controller	Standard	Week Schedule	400134	xx	AV122	xx	0	6	0 Thursday: Third period operating mode: 0=OFF, 1=low speed, 2=high speed, 6=medium speed
AHU controller	Standard	Week Schedule	400135	xx	AV123	xx	0	6	1 Friday: Third period operating mode: 0=OFF, 1=low speed, 2=high speed, 6=medium speed
AHU controller	Standard	Week Schedule	400136	xx	AV124	xx	0	6	0 Saturday: Third period operating mode: 0=OFF, 1=low speed, 2=high speed, 6=medium speed
AHU controller	Standard	Week Schedule	400137	xx	AV125	xx	0	6	2 Sunday: Third period operating mode: 0=OFF, 1=low speed, 2=high speed, 6=medium speed
AHU controller	Standard	Week Schedule	400138	xx	AV126	xx	0	6	1 Monday: Fourth period operating mode: 0=OFF, 1=low speed, 2=high speed, 6=medium speed
AHU controller	Standard	Week Schedule	400139	xx	AV127	xx	0	6	1 Tuesday: Fourth period operating mode: 0=OFF, 1=low speed, 2=high speed, 6=medium speed
AHU controller	Standard	Week Schedule	400140	xx	AV128	xx	0	6	0 Wednesday: Fourth period operating mode: 0=OFF, 1=low speed, 2=high speed, 6=medium speed
AHU controller	Standard	Week Schedule	400141	xx	AV129	xx	0	6	2 Thursday: Fourth period operating mode: 0=OFF, 1=low speed, 2=high speed, 6=medium speed
AHU controller	Standard	Week Schedule	400142	xx	AV130	xx	0	6	1 Friday: Fourth period operating mode: 0=OFF, 1=low speed, 2=high speed, 6=medium speed
AHU controller	Standard	Week Schedule	400143	xx	AV131	xx	0	6	0 Saturday: Fourth period operating mode: 0=OFF, 1=low speed, 2=high speed, 6=medium speed
AHU controller	Standard	Week Schedule	400144	xx	AV132	xx	0	6	2 Sunday: Fourth period operating mode: 0=OFF, 1=low speed, 2=high speed, 6=medium speed
AHU controller	Standard	TempRegMode	400145	xx	AV133	xx	0	3	0 Supply, 1-Extract, 2-Room, 3-supply/extract differential
AHU controller	Standard	TempRegSet	400146	xx	AV134	xx	0	4000	Temperature setpoint for actual control type [1/100°C]
AHU controller	Standard	Sup TempMinSet	400147	xx	AV135	xx	0	4000	1000 Min. limit supply temperature [1/100°C]
AHU controller	Standard	Sup TempMaxSet	400150	xx	AV136	xx	0	5000	3500 Max. limit supply temperature [1/100°C]
AHU controller	Standard	Sup TempDiffSet	400152	xx	AV137	xx	100	1500	Setpoint: Temperature differential between supply and extract. 300 Only relevant when tempRegMode is 3 (supply/extract differential) Alarm limit for temperature differential between supply and extract [1/100°C]
AHU controller	Standard	Sup TempDiffAlr	400156	xx	AV138	xx	200	1500	500 setpoint and actual value [1/100°C]
AHU controller	Standard	Sup TempHeatPB	400157	xx	AV139	xx	200	10000	750 P-band for supply air temperature control [1/100°C]
AHU controller	Standard	Sup TempCool_IT	400158	xx	AV140	xx	10	30000	700 -h-m for supply cooling control [sec]
AHU controller	Standard	Sup TempEXC_IT	400159	xx	AV141	xx	10	30000	120 -h-m for supply heat exchanger control [sec]
AHU controller	Standard	Sup TempHeat_IT	400160	xx	AV142	xx	10	30000	300 -h-m for supply heating control [sec]
AHU controller	Standard	Sup TempInRegIt	400161	xx	AV143	xx	10	30000	120 -h-m for supply flow reduction in case of low supply temperature [sec]
AHU controller	Standard	Sup TempDiffIT	400162	xx	AV144	xx	10	30000	300 -h-m for supply heating/cooling control [sec]
AHU controller	Standard	Ext TempDiffAlr	400165	xx	AV145	xx	200	15000	500 Alarm limit for temperature differential between extract setpoint and actual value [1/100°C]
AHU controller	Standard	Ext TempHeatPB	400166	xx	AV146	xx	10	30000	1000 -h-m for extract cooling control [sec]
AHU controller	Standard	Ext TempCool_It	400167	xx	AV147	xx	10	30000	300 -h-m for extract heat exchanger control [sec]
AHU controller	Standard	Ext TempEXC_It	400168	xx	AV148	xx	10	30000	600 -h-m for extract heating control [sec]
AHU controller	Standard	Ext TempHeat_It	400169	xx	AV149	xx	10	30000	300 -h-m for extract flow reduction in case of low supply temperature [sec]
AHU controller	Standard	Ext TempDHRRegIt	400170	xx	AV150	xx	10	30000	600 -h-m for heating 2 control [sec]
AHU controller	Standard	Ext TempHeatZIt	400171	xx	AV151	xx	10	30000	600 -h-m for heating 2 control [sec]
AHU controller	Standard	Ext TempCool_ZIt	400172	xx	AV152	xx	10	30000	1500 Summer/Winter temp. comp. high outdoor temp. setpoint, winter [1/100°C]
AHU controller	Standard	Ext TempEXC_ZIt	400173	xx	AV153	xx	10	30000	2000 Summer/Winter temp. comp. low outdoor temp. setpoint, summer [1/100°C]
AHU controller	Standard	SWTC_WinX1	400174	xx	AV154	xx	2000	4000	3000 Summer/Winter temp. comp. high outdoor temp. setpoint, summer [1/100°C]
AHU controller	Standard	SWTC_SumX1	400175	xx	AV155	xx	0	1000	500 Summer/Winter temp. comp., winter compensation [1/100°C]
AHU controller	Standard	SWTC_SumX2	400176	xx	AV156	xx	0	1000	Summer/Winter temp. comp., summer compensation [1/100°C]
AHU controller	Standard	SWTC_WinComVal	400177	xx	AV157	xx	-1000	1000	Summer/Winter temp. comp., winter compensation [1/100°C]
AHU controller	Standard	SWTC_SumComVal	400180	xx	AV158	xx	0	1000	Summer/Winter temp. comp., summer compensation [1/100°C]
AHU controller	Standard	SW_Mode	400185	xx	AV159	xx	0	4	0=OFF (no summer/winter changeover) 1=Changeover determined by outdoor temperature 2=Changeover determined by date 3=Manual summer 4=Manual winter
AHU controller	Standard	SW_OutWinterON	400186	xx	AV160	xx	-3000	4000	0 Outdoor temperature for start of winter operation (SW_Mode = 1) [1/100°C]
AHU controller	Standard	SW_OutSummerON	400187	xx	AV161	xx	-3000	4000	2000 Outdoor temperature for start of summer operation (SW_Mode = 2) [1/100°C]
AHU controller	Standard	SW_MonthWinON	400188	xx	AV162	xx	7	12	11 Month for start of winter operation (SW_Mode = 2)
AHU controller	Standard	SW_MonthSumON	400189	xx	AV163	xx	1	31	1 Date for start of summer operation (SW_Mode = 2)
AHU controller	Standard	SW_MonthSumOff	400190	xx	AV164	xx	1	6	5 Month for start of summer operation (SW_Mode = 2)
AHU controller	Standard	RecStpSumON	400191	xx	AV165	xx	1	6	1900 Stop temperature for recirculation [1/100°C]
AHU controller	Standard	RecStpWinON	400192	xx	AV166	xx	500	4000	2100 Stop temperature for recirculation [1/100°C]
AHU controller	Standard	RecStpTemp	400196	xx	AV167	xx	500	4000	8000 Setpoint for internal fire alarm in supply duct [1/100°C]
AHU controller	Standard	Fire	400200	xx	AV168	xx	5000	12000	7000 Setpoint for internal fire alarm in extract duct [1/100°C]
AHU controller	Standard	Fire	400201	xx	AV169	xx	3500	10000	2500 Increase in fan speed when cooling is active [%]
AHU controller	Standard	CoolFwForcePc	400205	xx	AV170	xx	0	10000	1500 Min. outdoor temperature for start of cooling
AHU controller	Standard	CoolOutTmPMin	400206	xx	AV171	xx	0	3000	

Cooling coil	Set point	Standard	CoolSupMinTemp	°C	460207	x.x	AV169	x.x	0	2500	1200 Min. supply temperature when cooling is active (only with room temp. control)
AHU controller	Summer, Night Cooling	Standard	SN_ExtImpStart	°C	460210	x.x	AV170	x.x	1500	4000	2300 Summer night extract room temp. start [1/100°C]
AHU controller	Summer, Night Cooling	Standard	SN_ExtImpStop	°C	460211	x.x	AV171	x.x	500	2000	2000 Summer night extract room temp. stop [1/100°C]
AHU controller	Summer, Night Cooling	Standard	SN_OutTmStart	°C	460212	x.x	AV172	x.x	500	2000	1200 Summer night outdoor temp. start [1/100°C]
AHU controller	Summer, Night Cooling	Standard	SN_OutTmStop	°C	460213	x.x	AV173	x.x	500	2000	1000 Summer night outdoor temp. stop [1/100°C]
AHU controller	Summer, Night Cooling	Standard	SN_StartTemp	Min	460214	x.x	AV174	x.x	0	1439	1380 Summer night supply temp. control setpoint [1/100°C]
AHU controller	Summer, Night Cooling	Standard	SN_StopTime	Min	460215	x.x	AV175	x.x	0	1439	300 Summer night stop [min]
Heat exchanger	Set point	Special	CExDelectTemp	°C	460220	x.x	AV176	x.x	-500	2000	500 Min. exhaust temp. setpoint for cross-flow heat exchanger [1/100°C]
Heat exchanger	Control	Special	CExDelectPress	Pa	460221	x.x	NA	NA	200	2000	500 P-band for bypass control of cross-flow heat exchanger [1/100°C]
Heat exchanger	Control	Special	CExDelectTime	Sec	460223	x.x	NA	NA	180	1600	300 Setpoint for duration of heat exchanger de-icing [sec]
Heat exchanger	Control	Standard	BatEXC_PumpFc		460225	x.x	AV178	x.x	0	3	0 → Pump runs constantly 1 → Pump runs if heat demand is > 0 (AutoMode) 2 → Pump runs if outdoor temp. is < temp. setpoint for pump start 3 → Pump runs if outdoor temp. is < temp. setpoint for pump start
Heat exchanger	Control	Standard	BatEXC_PumpSt	°C	460226	x.x	AV179	x.x	0	4000	1500 ONLY used if CoolEXC_PumpFunc (Address 224) = 2. Temp. differential alarm setpoint for heat exchanger coil downstream from heat exchanger coil operating at 50% power (or more) is lower than the alarm setpoint
Heat exchanger	Alarm	Standard	BatEXC_AlSet	°C	460227	x.x	AV180	x.x	-1000	2000	Temp. differential alarm setpoint for heat exchanger coil downstream from heat exchanger coil operating at 50% power (or more) is lower than the alarm setpoint
Humidity	Set point	Standard	Humid_SupSet	%	460228	x.x	AV204	6.12	0	10000	2000 Humidity setpoint for selected control type (supply/exhaust) [1/100%] RH
Heating coil 1, Water	Set point	Standard	HW1UpStartPow	%	460230	x.x	AV181	x.x	0	10000	5000 Heating coil. Start-up power setpoint [1/100%] Circulation pump mode on heating coil.
Heating coil 1, Water	Control	Standard	HW1PumpFunc		460231	x.x	AV182	x.x	0	3	1 → Pump runs constantly 2 → Pump runs if heat demand is > 0 (AutoMode) 3 → Pump runs if outdoor temp. is < temp. setpoint for pump start
Heating coil 1, Water	Set point	Standard	HW1PmpStartTemp	°C	460232	x.x	AV183	x.x	500	3000	1500 ONLY used if HW1_PumpFunc (Address 230) = 2 Temp. setpoint for circulation pump on heating coil
Heating coil 1, Water	Set point	Standard	HW1FrzStpSet	°C	460233	x.x	AV184	x.x	500	4000	Pump runs if outdoor temp. is < temp. setpoint for pump start
Heating coil 1, Water	Set point	Standard	HW1FrzHlStSet	°C	460234	x.x	AV185	x.x	200	2000	2500 Setpoint for frost protection when system is in OPERATING mode [1/100°C]
Heating coil 1, Water	Control	Standard	HW1FrzStpPB		460235	x.x	AV186	x.x	200	2000	500 P-band for frost protection control [1/100°C]
Heating coil 1, Water	Set point	Standard	HW1FrzAlTpSet	°C	460236	x.x	AV187	x.x	200	2000	200 Setpoint for frost protection temp. alarm [1/100°C]
Heating coil 1, Water	Set point	Standard	HW1PmpStartPr	%	460237	x.x	NA	NA	0	10000	300 Start circulation pump with %-open valve [1/100%] ONLY used if HW1_PumpFunc (Address 230) = 1 The pump starts when the value is exceeded. Cooling water pump mode:
Cooling coil	Control	Standard	CW_PumpFunc		460240	x.x	AV188	x.x	0	3	0 → Pump runs constantly 1 → Pump runs if outdoor temp. is > temp. setpoint for pump start 2 → Pump runs if outdoor temp. > temp. setpoint for pump start
Cooling coil	Set point	Standard	CW_PmpStartTemp	°C	460241	x.x	AV189	x.x	500	4000	Temp. setpoint for start of cooling coil pump
GreenZone	Set point	Standard	FanOptSupExtIn	%	460242	x.x	AV223	x.x	0	10000	2100 ONLY used if CW_PumpFunc (Address 230) = 2 Pump runs if outdoor temp. is > temp. setpoint for pump start
GreenZone	Set point	Standard	FanOptExtIn	%	460243	x.x	AV224	x.x	0	10000	External signal GreenZone, supply [1/100%]
Filter	Alarm	Standard	FrlSubStair	Pa	460245	x.x	AV190	x.x	10	500	80 Alarm limit for pressure drop across intake filter (static mode)
Filter	Alarm	Standard	FrlSubAir	%	460246	x.x	AV191	x.x	1000	10000	5000 Alarm limit for pressure drop across exhaust filter (static mode)
Filter	Alarm	Standard	FrlSubAlr	%	460247	x.x	AV192	x.x	1000	10000	5000 Alarm limit for pressure drop across exhaust filter (dynamic mode)
Filter	Alarm	Standard	FrlSupStair	Pa	460248	x.x	AV193	x.x	1000	10000	5000 Alarm limit for pressure drop across intake filter (static mode)
Filter	Alarm	Standard	FrlSupStair	Pa	460249	4.18	AV258	4.18	10	500	80 Filter Pressure Air Limit for SupFilter2 (static mode) Alarm email setup
AHU controller	Alarm	Standard	Alr_MailSetup		460250	x.x	AV194	x.x	0	3	0 → Emails not sent 1 → Emails sent for A-alarms 2 → Emails sent for B-alarms 3 → Emails sent for A and B-alarms Use the (B-Alarm relay) Function:
AHU controller	Alarm	Standard	UserRE_Func		460251	x.x	AV195	x.x	0	4	0 → Low speed indication 1 → High speed indication 2 → Medium speed indication 3 → Medium speed indication
Preheater coil	Set point	Standard	PHStartPr	%	460252	x.x	AV205	x.x	0	30000	Pre-heating coil - Start-up output setpoint [1/100%]; when system is in start-up sequence
Preheater coil	Control	Standard	PH_PumpMode		460253	x.x	AV210	x.x	0	4	0 → Pump runs constantly 1 → Pump runs if outdoor temp. is > 0 (AutoMode) 2 → Pump runs if outdoor temp. is > temp. setpoint for pump start Pre-heating coil
Preheater coil	Set point	Standard	PH_PmpSTmpH	°C	460254	x.x	AV208	x.x	500	3000	1000 Start temperature for circulation pump of pre-heating coil. ONLY used if PHPumpMode (Address 252) = 2
Preheater coil	Set point	Standard	PH_StandbyTmP	°C	460255	x.x	AV205	x.x	500	4000	Pre-heating coil Setpoint for frost protection control when system is in STOP mode [1/100°C]
Preheater coil	Set point	Standard	PHFrzDfSetH	°C	460256	x.x	AV209	x.x	200	2000	Pre-heating coil Setpoint for frost protection control when system is in OPERATING mode [1/100°C]
Preheater coil	Control	Standard	PHHeatFrzPB		460257	x.x	AV207	x.x	200	2000	P-band for frost protection control [1/100°C]
Preheater coil	Alarm	Standard	PHMeAlFrz	°C	460258	x.x	AV204	x.x	-4000	10000	Pre-heating coil - Frost alarm
Preheater coil	Set point	Standard	PHHeatSet	°C	460259	x.x	AV203	x.x	2000	2000	200 Pre-heating coil - Setpoint supply duct; just after pre-heating coil
Heating coil 2, Water	Set point	Standard	HW2UpStartPow	%	460260	x.x	AV196	x.x	0	10000	5000 Heating coil 2 - Start-up output setpoint [1/100%] Heating coil 2
Heating coil 2, Water	Control	Standard	HW2PumpFunc		460261	x.x	AV197	x.x	0	3	0 → Pump runs constantly 1 → Pump runs if heating valve %-open is > value set in address = 262 2 → Pump runs if outdoor temp. is > temp. setpoint for pump start (address = 261)

Zone 2	Set point	Standard		4:19	A/270	4:19	-4000	10000	ZoneModule 2 - Maximum Supply Temperature
Zone 2	Set point	Standard		4:19	A/271	4:19	0	5000	ZoneModule 2 - Room CO2 Setpoint
Zone 2	Set point	Standard		4:19	A/272	4:19	0	10000	ZoneModule 2 - Room RH Setpoint
Zone 3	Set point	Standard		4:19	A/273	4:19	-4000	10000	ZoneModule 3 - VAV Supply PIR Min Air Flow
Zone 3	Set point	Standard		4:19	A/274	4:19	-4000	10000	ZoneModule 3 - Room Temperature Setpoint
Zone 3	Set point	Standard		4:19	A/275	4:19	-4000	10000	ZoneModule 3 - Minimum Supply Temperature
Zone 3	Set point	Standard		4:19	A/276	4:19	0	5000	ZoneModule 3 - Maximum Supply Temperature
Zone 3	Set point	Standard		4:19	A/277	4:19	0	10000	ZoneModule 3 - Room CO2 Setpoint
Zone 3	Set point	Standard		4:19	A/278	4:19	0	10000	ZoneModule 3 - Room RH Setpoint
Zone 3	Set point	Standard		4:19	A/279	4:19	0	10000	ZoneModule 3 - VAV Supply PIR Min Air Flow
Zone 4	Set point	Standard		4:19	A/280	4:19	-4000	10000	ZoneModule 4 - Room Temperature Setpoint
Zone 4	Set point	Standard		4:19	A/281	4:19	-4000	10000	ZoneModule 4 - Minimum Supply Temperature
Zone 4	Set point	Standard		4:19	A/282	4:19	-4000	10000	ZoneModule 4 - Maximum Supply Temperature
Zone 4	Set point	Standard		4:19	A/283	4:19	0	5000	ZoneModule 4 - Room CO2 Setpoint
Zone 4	Set point	Standard		4:19	A/284	4:19	0	10000	ZoneModule 4 - Room RH Setpoint
Fan	Set point	Standard		6:10	A/285	4:19	0	10000	ZoneModule 4 - VAV Supply PIR Min Air Flow
Fan	Set point	Standard		6:10	A/286	6:10	100	10000	Supply Motor Lowspeed [1/100%], Fixed Fan Speed
Fan	Set point	Standard		6:10	A/287	6:10	100	10000	Supply Motor Mediumspeed [1/100%], Fixed Fan Speed
Fan	Set point	Standard		6:10	A/288	6:10	100	10000	Supply Motor Highspeed [1/100%], Fixed Fan Speed
Fan	Set point	Standard		6:10	A/300	6:10	100	10000	Extract Motor Lowspeed [1/100%], Fixed Fan Speed
Fan	Set point	Standard		6:10	A/301	6:10	100	10000	Extract Motor Mediumspeed [1/100%], Fixed Fan Speed
Fan	Set point	Standard		6:10	A/302	6:10	100	10000	Extract Motor Highspeed [1/100%], Fixed Fan Speed
Fan	Set point	Standard		6:10	A/303	6:10	100	10000	Extract Motor Highspeed [1/100%], Fixed Fan Speed
Damper, Recirculation	Set point	Standard		6:10	A/304	6:10	3000	10000	Max Fresh Air part [1/100%], Fixed Fan Speed
									11 = BMS stop
									105 = BMS low speed
									210 = BMS high speed
									211 = BMS somnertight cooling
									220 = BMS night heating mode (Recirculation)
									414 = BMS medium speed
AHU controller	Control	Standard		x.xx	A/244	x.xx	0	1000	BMS-modes only available after activation of physical input. Operating mode via BMS*
Temp. out door	Current value	Standard		x.xx	A/245	x.xx	-6000	10000	BMS outdoor temperatur [1/100°C]
Temp. room	Current value	Standard		x.xx	A/246	x.xx	-4000	10000	BMS room temperatur [1/100°C]