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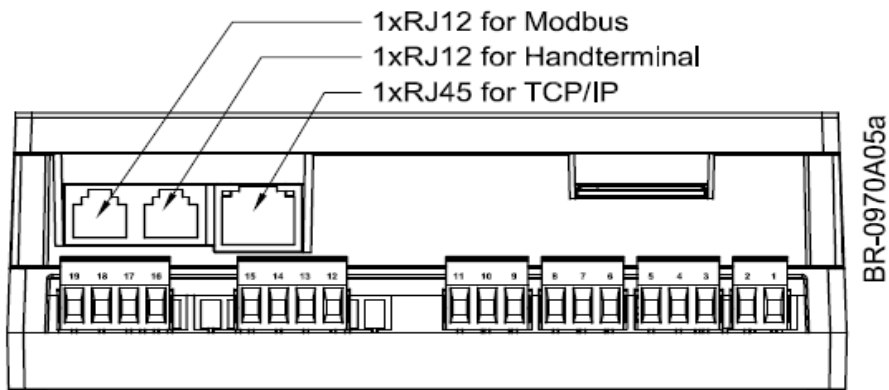
**ModBus / BacNet Konnektionen** **DE**

**MARK AHU / AIRSTREAM**

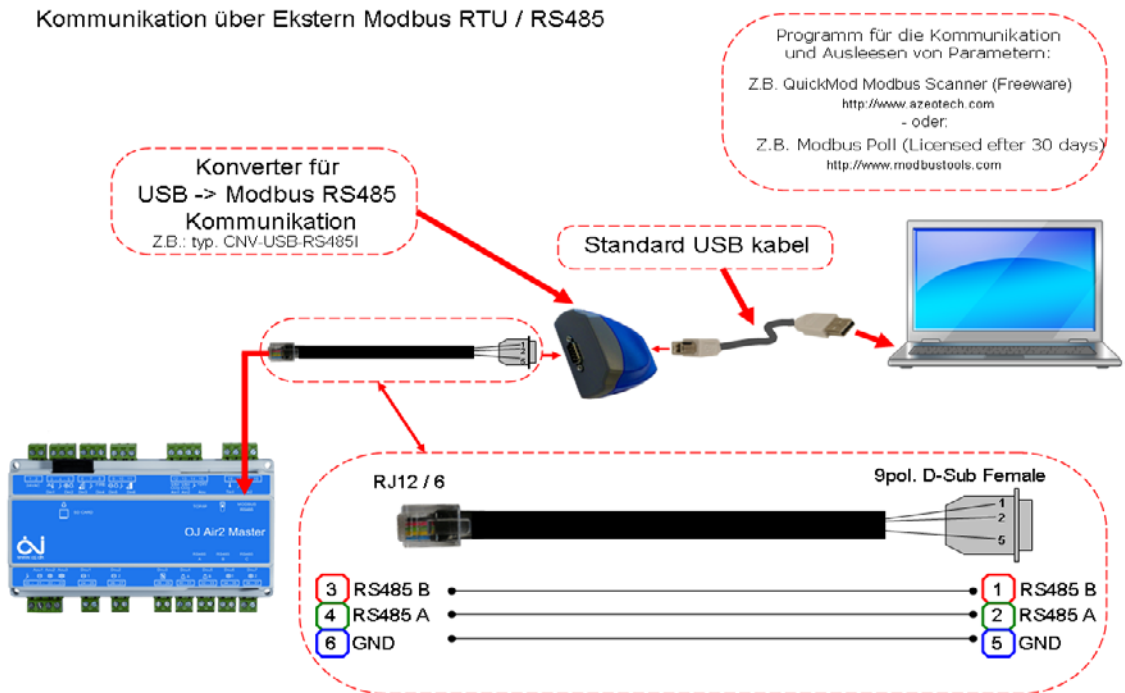
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# OJ Air2 Master Controller RJ12 Modbus/RTU Anschluss

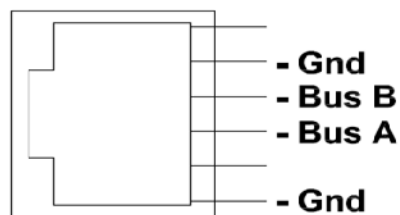
**Abb. 1 OJ Air2 Master, Visuelle Oberseite**



**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

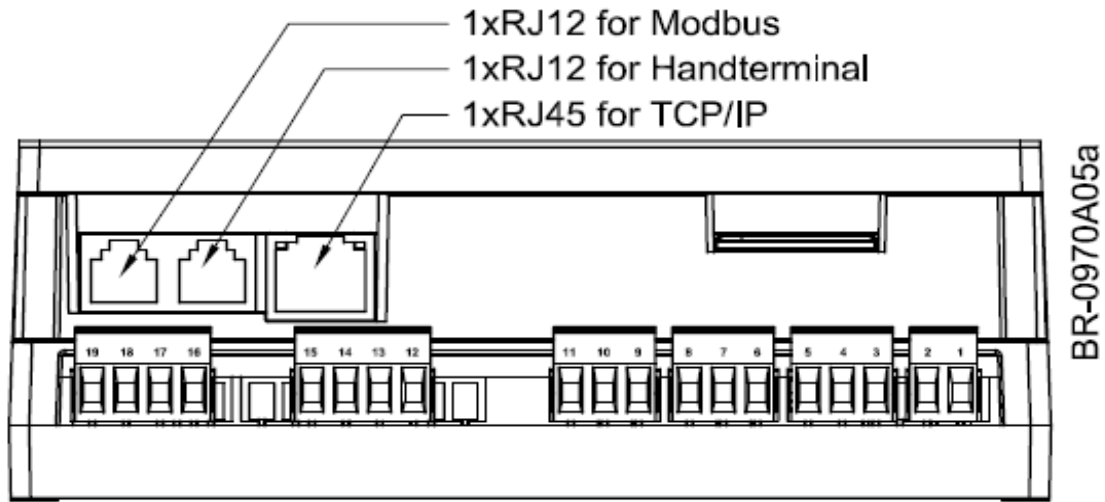
### Unterstützte Modbus-Kommandos

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.**

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### **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

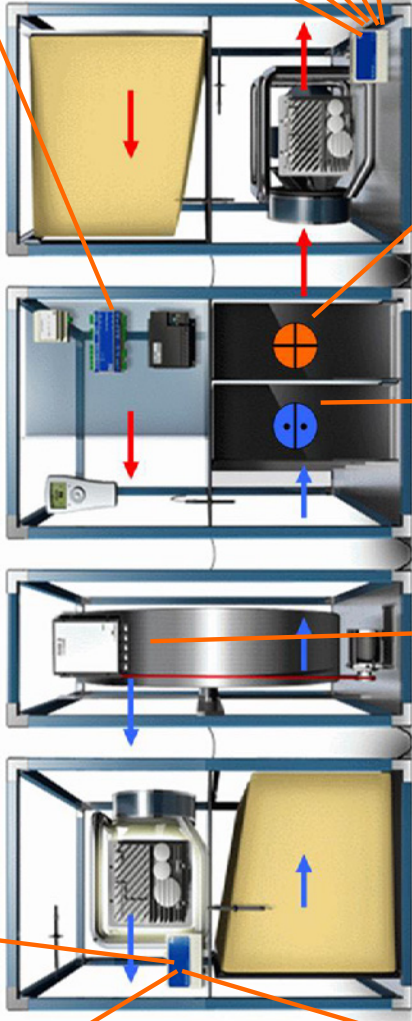
Aktuelle Zulufttemp. [1/100 °C] AI; OI=16  
 Einstellung des Regelprinzips AV; OI=133  
 Temperatur-Sollwert für aktuelles Regelprinzip AV; OI=134

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.	BachNet parameter	SW vers. (R/W)	Binary value (R/W)	Min	Max	Factory settings	English
1. Info	1. Info	Standard	1. Info		0x0001	x.xx	BV0	x.xx	0	1		Alarm reset signal (AutoReturn to zero)	
AHU controller	Alarm	Standard	Alr_Reset		0x0002	x.xx	BV1	x.xx	0	1		0 Cooling recovery: ON/OFF	
Heat exchanger	Cool recovery	Standard	CoolRecovFunc		0x0003	x.xx	BV2	x.xx	0	1		0 Summer night cooling: ON/OFF	
AHU controller	Summer/Night Cooling	Standard	SN_Func		0x0004	x.xx	BV3	x.xx	0	1		0 Summer/winter temp. compensation: ON/OFF	
AHU controller	Summer/Winter comp.	Standard	SWTC_Func		0x0005	x.xx	BV4	x.xx	0	1		0 Flow/outdoor temperature compensation: ON/OFF	
Fan	Outdoor temp. comp.	Standard	FlwTmpCompFunc		0x0006	x.xx	BV5	x.xx	0	1		0 Recirculation: ON/OFF	
Damper, Recirculation	Recirculation heat	Standard	RecircFunc		0x0007	x.xx	BV6	x.xx	0	1		0 Forced flow with cooling demand: ON/OFF	
Fan	Forced cooling	Standard	CoolFlwForceFc		0x0008	x.xx	BV7	x.xx	0	1		1 Automatic summer/winter time: ON/OFF	
AHU controller	Summer/winter time	Standard	TimeSw_SumFunc		0x0009	x.xx	BV8	x.xx	0	1		0 Input for forced high speed	
Fan	Speed	Standard	ExDrFrHPeiod		0x0010	x.xx	BV9	x.xx	0	1		0 Run-on time for forced high speed active	
Fan	Speed	Standard	EXC_CCV		0x0011	x.xx	NA	NA	0	1		0 Rotary heatexchanger, turn rotation direction to counter clock wise (CCW)	
Heat exchanger drive	Speed	Standard	ExDrFrPeiod		0x0012	x.xx	NA	NA	0	1		0 Input for forced medium speed	
Fan	Speed	Standard	EXC_CCV		0x0020	x.xx	BV10	4.18	0	1		0 Start manual zero calibration (can be used together with automatic zero calibration)	
Pressure	Calibration	Standard	ManZeroCall		0x0021	x.xx	BV11	4.18	0	1		Is automatically reset to zero (OFF) once calibration has been completed	
Pressure	Calibration	Standard	AutoZeroCall		0x0022	x.xx	BV12	x.xx	0	1		0 Automatic zero calibration: ON/OFF	
Filler	Alarm	Standard	FillDynAlFunc		0x0023	x.xx	BV13	x.xx	0	1		Dynamic filter alarm → ON/OFF	
Filler	Calibration	Standard	FillCalibrate		0x0024	x.xx	BV14	4.18	0	1		0 OFF → static alarm limit (constant)	
Filler	Control	Standard	FillCallDone		0x0025	x.xx	BV22	4.18	0	1		ON → dynamic alarm limit (limit based on flow)	
Combi coil	Control	Standard	CmbErChnMB		0x0026	x.xx	BV17	x.xx	0	1		0 Start filter calibration. Is automatically reset to zero (OFF) once calibration has been completed.	
Combi coil	Control	Standard	CmbErHeatMB		0x0027	x.xx	BV18	x.xx	0	1		NOTE! ONLY IF "DYNAMIC MODE" IS SET	
Temp. Room	Control	Standard	MBTOutAct		0x0028	x.xx	BV15	x.xx	0	1		0 Filter calibration completed (valid filler data)	
Damper, Recirculation	Recirculation heat	Standard	MBTRoom1Actlv		0x0029	x.xx	BV16	x.xx	0	1		0 NOTE! ONLY IF "DYNAMIC MODE" IS SET	
Damper, Recirculation	Recirculation heat	Standard	MBForceRecirc		0x0030	4.18	BV19	4.18	0	1		0 Enable combi coil for control via external Modbus [I=Modbus/0=Dig. Input]	
1. Info	1. Info	Standard	1. Info		0x0031	4.18	BV20	4.18	0	1		1 Hot water supply is available for the combi coil	
AHU controller	Speed	Standard	Operation		1x0001	x.xx	B10	x.xx	0	1		1 Cold water supply is available for the combi coil	
AHU controller	Speed	Standard	ExHSlop		1x0002	x.xx	B11	x.xx	0	1		0 Activate outdoor temperature from BMS	
AHU controller	Speed	Standard	ExHSpeed		1x0003	x.xx	B12	x.xx	0	1		0 Force recirc via Ext. Modbus	
AHU controller	Speed	Standard	ExDrFrLSpeed		1x0004	x.xx	B13	x.xx	0	1		0 Enable Modbus Force recirc signal	
AHU controller	Fire	Standard	ExDrFrHSpeed		1x0005	x.xx	B14	x.xx	0	1		Operation ON/OFF	
Fan	Speed	Standard	ExDrFrMSpeed		1x0006	x.xx	B178	x.xx	0	1		External stop	
Heating coil, Electric	Status	Standard	ElBatPowerRed		1x0007	x.xx	B1225	x.xx	0	1		Extended low speed → Active	
AHU controller	Summer/Night Cooling	Standard	SN_Drift		1x0010	x.xx	B15	x.xx	0	1		Extended high speed → Active	
AHU controller	Summer/Night Cooling	Standard	SN_Reset		1x0011	x.xx	B16	x.xx	0	1		Status Brandstop input	
AHU controller	Summer/Winter comp.	Standard	SWTC_WintComp		1x0012	x.xx	B17	x.xx	0	1		Power to electric heating coil reduced due to low flow	
AHU controller	Summer/Winter comp.	Standard	SWTC_SumComp		1x0013	x.xx	B18	x.xx	0	1		Summer night cooling is active	
AHU controller	Summer/Winter comp.	Standard	SWTC_Status		1x0014	x.xx	B19	x.xx	0	1		Reset parameters for summer night cooling (new calculation is initiated)	
Damper, Recirculation	Recirculation heat	Standard	RecircStatus		1x0015	x.xx	B10	x.xx	0	1		Winter temperature compensation is active	
Heat exchanger	Recirculation heat	Standard	EXC_Exercise		1x0016	x.xx	B11	x.xx	0	1		Summer/Winter actual status	
Heat exchanger	Status	Standard	EXC_ExerciseProtect		1x0017	x.xx	B12	x.xx	0	1		OFF → winter operation ("0")	
Fan	Status	Standard	SupDuctMinFlow		1x0018	x.xx	B13	x.xx	0	1		ON → summer operation ("1")	
Fan	Status	Standard	ExDuctMinFlow		1x0019	x.xx	B14	x.xx	0	1		Recirculation status	
Fan	Status	Standard	ExDuctMaxFlow		1x0020	x.xx	B15	x.xx	0	1		Exercising heat exchanger → Active	
Fan	Status	Standard	ExDuctMaxFlow		1x0021	x.xx	B16	x.xx	0	1		Signal to cross-flow exchanger reduced (frost protection)	
Fan	Status	Standard	HW1FrostReg		1x0022	x.xx	B17	x.xx	0	1		Supply duct pressure controller reduced to min. flow	
Heating coil 1, Water	Status	Standard	HW1FrostReg		1x0023	x.xx	B18	x.xx	0	1		Supply duct pressure controller increased to max. flow	
Heating coil 1, Water	Status	Standard	CW_PumpExer		1x0024	x.xx	B19	x.xx	0	1		Extract duct pressure controller reduced to min. flow	
Cooling coil	Status	Standard	CW_PumpExer		1x0025	x.xx	B20	x.xx	0	1		Extract duct pressure controller increased to max. flow	
Heating coil 1, Electric	Status	Standard	Heat_FwdOnReg		1x0026	4.18	B21	4.18	0	1		Cooling recovery → status	
AHU controller	Status	Standard	TempRegMinSup		1x0027	x.xx	B22	x.xx	0	1		Cooling recovery on heating coil: Frost protection → Active	
AHU controller	Status	Standard	TempRegMaxSup		1x0028	x.xx	B23	x.xx	0	1		Circulation pump on heating coil: Pump exercising → Active	
Heat exchanger	Status	Standard	BatEXC_Exer		1x0029	x.xx	B24	x.xx	0	1		CoolWaterCoil PumpExercise active	
Heating coil 1	Status	Standard	Heat_RE1		1x0030	x.xx	B25	x.xx	0	1		Signal to heating coil reduced (insufficient flow) → Active	
Cooling coil	Status	Standard	Cool_RE1		1x0031	x.xx	B26	x.xx	0	1		"1" when min. supply temperature control is active.	
Heat exchanger	Status	Standard	BatEXC_PumpRE		1x0032	x.xx	B27	x.xx	0	1		"1" when max. supply temperature control is active.	
AHU controller	Alarm	Standard	AlrActive		1x0033	x.xx	B28	x.xx	0	1		Only active when TempRegMode is 1 or 2 (room temp. control)	
					1x0034	x.xx	B29	x.xx	0	1		Only active when TempRegMode is 1 or 2 (room temp. control)	



AHU controller	Alarm	Standard	Air RE1	1x0035	xxx	B130	xxx	0	1	Alarm relay 1 (A-alarm)
AHU controller	Alarm	Standard	Air RE2	1x0036	xxx	B131	xxx	0	1	Alarm relay 2 (B-alarm)
AHU controller	Fire	Standard	Air FireSignal	1x0037	xxx	B132	xxx	0	1	Fire alarm signal (room sensor)
AHU controller	Smoke	Standard	Air_SmokeSig	1x0038	xxx	B133	xxx	0	1	Smoke/fire alarm signal (duct sensor)
Heating coil, Electric	Alarm	Standard	ELI_OverHibac	1x0039	xxx	B1219	xxx	0	1	Electric coil - High temperature alarm signal
Heating coil, Electric	Alarm	Standard	AirEBartCont	1x0040	xxx	B1220	xxx	0	1	Electric coil - Relay stuck
Filter	Alarm	Standard	FillSupAlarm	1x0041	xxx	B135	xxx	0	1	Filter alarm for supply filter (pressure drop above set limit)
Filter	Alarm	Standard	FillExAlarm	1x0042	xxx	B136	xxx	0	1	Filter alarm for extract filter (pressure drop above set limit)
Heat exchanger	Status	Special	CExdReling	1x0043	xxx	NA	NA	0	1	Reduction of cross-flow exchanger due to de-icing; deicing started
Heating coil 2, Electric	Status	Standard	ElBat2PowerRed	1x0045	xxx	NA	NA	0	1	Electric coil 2 - Output reduction active due to low flow
Filter	Alarm	Standard	FillSup2Alarm	1x0048	4.18	B1253	xxx	0	1	Filler Alarm for Sup2-Filter (pressure above Limit)
Filter	Alarm	Standard	FillEx2Alarm	1x0049	4.18	B1254	xxx	0	1	Filler Alarm for Ex2-Filter (pressure above Limit)
Temp. Supply	Alarm	Standard	SupTempSensErr	1x0050	xxx	B137	xxx	0	1	Supply temperature sensor - sensor fault
Temp. Extract	Alarm	Standard	ExTTempSensErr	1x0051	xxx	B138	xxx	0	1	Extract temperature sensor - sensor fault
Temp. Out door	Alarm	Standard	OutDoorSensErr	1x0052	xxx	B139	xxx	0	1	Outdoor temperature sensor - sensor fault
Temp. Room	Alarm	Standard	RoomSensErr	1x0053	xxx	B140	xxx	0	1	Room temperature sensor - sensor fault
Temp. Exhaust	Alarm	Standard	ExhaustSensErr	1x0054	xxx	B141	xxx	0	1	Exhaust temperature sensor - sensor fault
Heating coil 1, Water	Alarm	Standard	HW1SensErr	1x0055	xxx	B142	xxx	0	1	Heating coil temperature sensor - sensor fault
Heat exchanger	Alarm	Standard	BattEXC_SensEr	1x0056	xxx	B143	xxx	0	1	Heat recovery coil temperature sensor - sensor fault
Heating coil 1, Water	Alarm	Standard	HW1FrostAir	1x0057	xxx	B144	xxx	0	1	Heating coil frost alarm
Cooling coil	Alarm	Standard	Cool_SumAlarm	1x0060	xxx	B145	xxx	0	1	Cooling shared alarm
Cooling coil	Alarm	Standard	Cool_D11_Alarm	1x0061	xxx	B146	xxx	0	1	Cooling digital alarm 1 input
Cooling coil	Alarm	Standard	Cool_D12_Alarm	1x0062	xxx	B147	xxx	0	1	Cooling digital alarm 2 input
Cooling coil	Alarm	Standard	Cool_D13_Alarm	1x0063	xxx	B148	xxx	0	1	Cooling digital alarm 3 input
Cooling coil	Alarm	Standard	Cool_D14_Alarm	1x0064	xxx	B149	xxx	0	1	Cooling digital alarm 4 input
Fan, Supply drive	Status	Standard	SupMotorON	1x0070	xxx	B160	xxx	0	1	Supply motor ON/OFF
Fan, Supply drive	Alarm	Standard	SupMotorAlarm	1x0071	4.18	B161	xxx	0	1	Supply motor low voltage alarm (only with OJ-FC)
Fan, Supply drive	Alarm	Standard	FCsupMtrAlVlo	1x0072	xxx	B162	xxx	0	1	Supply motor high voltage alarm(only with OJ-FC)
Fan, Supply drive	Alarm	Standard	FCsupMtrAlVhi	1x0073	xxx	B163	xxx	0	1	Supply motor high current alarm (only with OJ-FC)
Fan, Supply drive	Alarm	Standard	FCsupMtrAlTri	1x0074	xxx	B164	xxx	0	1	Supply motor temperature alarm (only with OJ-FC)
Fan, Supply drive	Alarm	Standard	FCsupMtrAlTrip	1x0075	xxx	B165	xxx	0	1	Supply motor phase fault alarm (only with OJ-FC)
Fan, Supply drive	Alarm	Standard	FCAlSupOVRlp	1x0076	xxx	B166	xxx	0	1	Supply motor ripple voltage alarm (only with OJ-FC)
Fan, Supply drive	Alarm	Standard	FCsupMtrAlFlts	1x0077	NA	NA	NA	0	1	Supply motor V Ripple Alarm
Fan, Supply drive	Alarm	Standard	FCsupMtrAlLim	1x0078	xxx	B167	xxx	0	1	Extract motor low voltage alarm
Fan, Supply drive	Alarm	Standard	FCsupMtrAlTri	1x0079	4.18	B168	xxx	0	1	Extract motor high voltage alarm
Fan, Extract drive	Status	Standard	FCExtMtrAlVlo	1x0080	xxx	B169	xxx	0	1	Extract motor high current alarm
Fan, Extract drive	Alarm	Standard	FCExtMtrAlVhi	1x0081	xxx	B170	xxx	0	1	Extract motor high current alarm
Fan, Extract drive	Alarm	Standard	FCExtMtrAlTri	1x0082	xxx	B171	xxx	0	1	Extract motor temperature alarm
Fan, Extract drive	Alarm	Standard	FCExtMtrAlTrip	1x0083	xxx	B172	xxx	0	1	Extract motor phase fault alarm
Fan, Extract drive	Alarm	Standard	FCExtMtrAlFlts	1x0084	xxx	B173	xxx	0	1	Extract motor ripple voltage alarm
Fan, Extract drive	Alarm	Standard	FCExtMtrAlLim	1x0085	xxx	B174	xxx	0	1	Extract motor high current limit (only with OJ-FC)
Fan, Extract drive	Alarm	Standard	FCExtMtrAlTrip	1x0086	xxx	B164	xxx	0	1	Extract motor phase fault alarm
Fan, Extract drive	Alarm	Standard	FCExtMtrAlFlts	1x0087	xxx	B165	xxx	0	1	Extract motor ripple voltage alarm
Fan, Extract drive	Alarm	Standard	FCExtMtrAlLim	1x0088	xxx	B166	xxx	0	1	Extract motor high current limit
Fan, Extract drive	Alarm	Standard	FCExtMtrAlTri	1x0089	4.18	B167	xxx	0	1	ExtractMotor V Ripple Alarm
Heat exchanger drive	Status	Standard	EXC_ON	1x0090	xxx	B168	xxx	0	1	Rotary heat exchanger - motor control ON/OFF(only with OJ-RHX2M)
Heat exchanger drive	Status	Standard	EXC_Reset	1x0091	xxx	B169	xxx	0	1	Rotary heat exchanger - reset signal (only with OJ-RHX2M)
Heat exchanger drive	Status	Standard	EXC_Direction	1x0092	xxx	B170	xxx	0	1	Rotary heat exchanger - rotation direction (only with OJ-RHX2M)
Heat exchanger drive	Alarm	Standard	EXC_NoAlarm	1x0093	xxx	B171	xxx	0	1	Rotary heat exchanger - rotation alarm (only with OJ-RHX2M)
Heat exchanger drive	Alarm	Standard	EXC_VolAlarm	1x0094	xxx	B172	xxx	0	1	Rotary heat exchanger - low voltage alarm (only with OJ-RHX2M)
Heat exchanger drive	Alarm	Standard	EXC_YolAlarm	1x0095	xxx	B173	xxx	0	1	Rotary heat exchanger - high voltage alarm(only with OJ-RHX2M)
Heat exchanger drive	Alarm	Standard	EXC_ImAlarm	1x0096	xxx	B174	xxx	0	1	Rotary heat exchanger - high current alarm (only with OJ-RHX2M)
Heat exchanger drive	Alarm	Standard	EXC_TempAlarm	1x0097	xxx	B175	xxx	0	1	Rotary heat exchanger - temperature alarm (only with OJ-RHX2M)
Heat exchanger drive	Status	Standard	EXC_RotSignal	1x0098	xxx	B176	xxx	0	1	Rotary heat exchanger - rotation signal (only with OJ-RHX2M)
Heat exchanger drive	Alarm	Standard	EXC_Overload	1x0099	xxx	B177	xxx	0	1	Rotary heat exchanger - torque overload (only with OJ-RHX2M)
Preheater coil, electric	Status	Standard	PH_PowReduce	1x0100	xxx	B193	xxx	0	1	Pre-heating coil - Output reduction, low air volume
Preheater coil, water	Status	Standard	PHFrostRegAct	1x0101	xxx	B189	xxx	0	1	Pre-heating coil - Relay for active heating/cooling
Preheater coil	Status	Standard	PHHeatRelay	1x0102	xxx	B191	xxx	0	1	Pre-heating coil - Frost protection active
Preheater coil, water	Alarm	Standard	PHFrzAirCool	1x0103	xxx	NA	NA	0	1	Pre-heating coil - Frost alarm, cooling
Preheater coil, electric	Alarm	Standard	PH_Overheat	1x0104	xxx	B192	xxx	0	1	Pre-heating coil - Overheating fault
Preheater coil, water	Alarm	Standard	PH_HWBsSensErr	1x0105	xxx	B194	xxx	0	1	Pre-heating coil - Return sensor - Sensor fault
Preheater coil	Alarm	Standard	PHFreezeAlarm	1x0106	xxx	B188	xxx	0	1	Pre-heating coil - Frost alarm
Preheater coil, water	Status	Standard	PHHeatRelay2	1x0107	xxx	B226	xxx	0	1	Preheater - heat relay 2
Preheater coil, water	Status	Special	PHHeatRelay3	1x0108	xxx	B176	xxx	0	1	Pre-heating coil - Heat relay 3 (Heat/Cool)
Preheater coil, water	Status	Standard	PHumpExter	1x0109	4.18	B160	xxx	0	1	Pre-heater Pump exercise active
Heat pump	Status	Special	HF_CoolingActv	1x0110	xxx	B108	xxx	0	1	Changeover relay heatpump active
Heat pump	Status	Special	HF_DeicingAct	1x0111	xxx	B109	xxx	0	1	Status bit De-icing of heatpump
Cooling coil	Status	Special	NO_CSbpRTStat	1x0112	xxx	B107	xxx	0	1	Cooling stopped by room temperature
Cooling coil	Status	Special	NO_CRCovrStat	1x0113	xxx	B106	xxx	0	1	Coolrecovery over damper active
Heat exchanger	Alarm	Special	AIRNoREXCali	1x0114	xxx	B104	xxx	0	1	Alarm - pressure transmitter not calibrated (Ice guard rotor heat exchanger)
Heat exchanger	Alarm	Special	AIRNoREXCali	1x0115	xxx	B105	xxx	0	1	Alarm - pressure transmitter not configured (Ice guard rotor heat exchanger)
Heat exchanger	Alarm	Special	AIRexFrozen	1x0116	xxx	B110	xxx	0	1	Alarm - rotor heat exchanger blocked by ice (high pressure over rotor wheel)
Heat exchanger	Alarm	Special	AIRexDusly	1x0117	xxx	B111	xxx	0	1	Alarm - rotor heat exchanger blocked by dirt (high pressure over rotor wheel)
Heat exchanger	Alarm	Standard	AIRXCEFTLow	1x0118	4.18	B195	xxx	0	1	Alarm - Heat recovery efficiency below alarm limit
Heating coil 2, Water	Alarm	Standard	HW2SensErr	1x0150	xxx	B186	xxx	0	1	Heating coil 2 - Return sensor - Sensor fault

Heating coil 2 - Water	Alarm	Standard	HW2FrostAIR	1x0151	xxx	BI87	xxx	0	1	Heating coil 2 - Frost alarm
Heating coil 2 - Water	Status	Standard	HW2FrostReg	1x0152	xxx	BI84	xxx	0	1	Heating coil 2 - Frost control active
Heating coil 2 - Water	Status	Standard	HW2PumpExer	1x0153	xxx	BI85	xxx	0	1	Heating coil 2 - Circulation pump, pump exercising active
Heater coil 2	Status	Standard	Heat_RE2	1x0154	xxx	BI278	4.22	0	1	Heating relay 2 (ExtMod-Reserve)
Heating coil 2 - Electric	Status	Special	Heat_RE21	1x0155	xxx	BI212	xxx	0	1	Heating relay 21 (ExtMod-Reserve)
Heating coil 2 - Electric	Status	Special	Heat_RE23	1x0156	xxx	BI213	xxx	0	1	Heating relay 23 (ExtMod-Reserve)
Heating coil 2 - Electric	Status	Special	Heat_RE24	1x0157	xxx	BI214	xxx	0	1	Heating relay 24 (ExtMod-Reserve)
Heating coil 2 - Electric	Status	Special	Heat_RE25	1x0160	xxx	BI216	xxx	0	1	Heating relay 25 (ExtMod-Reserve)
Temp. sensor	Alarm	Special	AddOntSens1Err	1x0161	xxx	BI79	xxx	0	1	Add on sensor 1 - Sensor fault
Temp. sensor	Alarm	Special	AddOntSens2Err	1x0162	xxx	BI80	xxx	0	1	Add on sensor 2 - Sensor fault
Temp. sensor	Alarm	Special	AddOntSens3Err	1x0163	xxx	BI81	xxx	0	1	Add on sensor 3 - Sensor fault
Temp. sensor	Alarm	Special	AddOntSens4Err	1x0164	xxx	BI82	xxx	0	1	Add on sensor 4 - Sensor fault
Heat exchanger	Alarm	Standard	HW_StatLufAIR	1x0165	xxx	NA	NA	0	1	Status frost thermostat alarm (digital input)
Humidifier	Alarm	Standard	AIHFzBstEXC	1x0166	xxx	NA	NA	0	1	Frost alarm fluid-coupled coil (ColiEXC)
Combi coil	Alarm	Standard	HumidAIRmp	1x0169	xxx	BI100	xxx	0	1	Humidifier alarm status
Combi coil	Alarm	Standard	Combi1Sens1Err	1x0170	xxx	BI279	4.22	0	1	Combi coil - Return sensor - Sensor fault
Combi coil	Alarm	Standard	Combi1FrostAIH	1x0171	xxx	BI280	4.22	0	1	Combi coil - Frost alarm
Combi coil	Status	Standard	Combi1FrostReg	1x0172	xxx	BI281	4.22	0	1	Combi coil - Frost protection active
Combi coil	Status	Standard	Combi1PumpExer	1x0173	xxx	BI282	4.22	0	1	Combi coil - Circulation pump, pump exercising active
Combi coil	Status	Standard	Combi1CoolRel	1x0174	xxx	BI283	4.22	0	1	Combi coil; Cooling relay active
Combi coil 2	Status	Standard	Combi1HeatRel	1x0175	xxx	BI284	4.22	0	1	Combi coil; Heating relay active
Heating coil 2	Status	Special	Hf2DelayStatus	1x0176	xxx	BI113	xxx	0	1	Special customer code: Status timer Heat2
Heating coil 2	Status	Special	Hf2RecBkAct	1x0177	xxx	BI115	xxx	0	1	Special customer code: Blocking Heat2 in recirculation mode = Activated
Damper, Recirculation	Status	Special	Hf2FlowChgAct	1x0178	xxx	BI112	xxx	0	1	Special customer code: Flow changed caused Heat2 is activated
Damper, Recirculation	Status	Special	IntRecFlowStat	1x0179	xxx	BI116	xxx	0	1	Special customer code: Recirculation damper is closed
Heating coil 2	Status	Special	RecCloseDmpAct	1x0180	xxx	BI117	xxx	0	1	Special customer code: Limiting Heat2 is not activated
AHU controller	Status	Special	Hf2DelLimBkNo	1x0181	xxx	BI114	xxx	0	1	Special customer code: Outdoor air cooling: Stop activated
Heating coil 1	Status	Special	NO_CSbpbStat	1x0182	xxx	NA	NA	0	1	Max. raise-fall-time is activated
Damper, Smoke evac.	Alarm	Special	HWTRIRaActiv	1x0183	xxx	BI118	xxx	0	1	Alarm smoke evacuation damper is activated
Fan, Supply drive 2	Alarm	Special	Air_FireEvaDmp	1x0184	xxx	BI277	4.22	0	1	OU-ECI-DV 2-supply air motor voltage low alarm
Fan, Supply drive 2	Alarm	Special	EC2supMAIRVhi	1x0185	xxx	BI20	xxx	0	1	OU-ECI-DV 2-supply air motor voltage high alarm
Fan, Supply drive 2	Alarm	Special	EC2supMAIRVhi	1x0186	xxx	BI21	xxx	0	1	OU-ECI-DV 2-supply air motor high current limit alarm
Fan, Supply drive 2	Alarm	Special	EC2supMAIRVhi	1x0187	xxx	BI22	xxx	0	1	OU-ECI-DV 2-supply air motor temperature alarm
Fan, Supply drive 2	Alarm	Special	EC2supMAIRVhi	1x0188	xxx	BI23	xxx	0	1	OU-ECI-DV 2-supply air motor phase error
Fan, Supply drive 2	Alarm	Special	EC2supRAIRBlok	1x0189	xxx	BI24	xxx	0	1	OU-ECI-DV 2-supply air motor alarm for blocked rotor
Fan, Supply drive 2	Alarm	Special	EC2supMIRHilim	1x0190	xxx	BI26	xxx	0	1	OU-ECI-DV 2-supply air motor alarm for blocked rotor
Fan, Extract drive 2	Alarm	Special	EC2extMIRVio	1x0192	xxx	BI28	xxx	0	1	OU-ECI-DV 2-supply/exhaust motor high current limit; shortcircuit protection
Fan, Extract drive 2	Alarm	Special	EC2extMIRVhi	1x0193	xxx	BI29	xxx	0	1	OU-ECI-DV 2-extract/exhaust motor voltage high alarm
Fan, Extract drive 2	Alarm	Special	EC2extMIRVhi	1x0194	xxx	BI30	xxx	0	1	OU-ECI-DV 2-extract/exhaust motor high current limit alarm
Fan, Extract drive 2	Alarm	Special	EC2extMIRVhi	1x0195	xxx	BI31	xxx	0	1	OU-ECI-DV 2-extract/exhaust motor temperature alarm
Fan, Extract drive 2	Alarm	Special	EC2extMIRVhi	1x0196	xxx	BI32	xxx	0	1	OU-ECI-DV 2-extract/exhaust motor alarm for phase error
Fan, Extract drive 2	Alarm	Special	EC2extRABlok	1x0197	xxx	BI34	xxx	0	1	OU-ECI-DV 2-extract/exhaust motor alarm for blocked rotor
Fan, Extract drive 2	Alarm	Special	EC2extMIRHilim	1x0198	xxx	BI27	xxx	0	1	OU-ECI-DV 2-extract/exhaust motor high current limit; shortcircuit protection
Temp. sensor	Alarm	Standard	AIRTH6202Com	1x0199	xxx	BI55	xxx	0	1	TT-H6202 communication error
Fan, Supply drive	Alarm	Standard	ECsupMIRVio	1x0200	xxx	BI38	xxx	0	1	OU-ECI-DV-supply air motor voltage low alarm
Fan, Supply drive	Alarm	Standard	ECsupMIRVhi	1x0201	xxx	BI39	xxx	0	1	OU-ECI-DV-supply air motor voltage high alarm
Fan, Supply drive	Alarm	Standard	ECsupMIRVhi	1x0202	xxx	BI40	xxx	0	1	OU-ECI-DV-supply air motor high current limit alarm
Fan, Supply drive	Alarm	Standard	ECsupMIRVhi	1x0203	xxx	BI41	xxx	0	1	OU-ECI-DV-supply air motor temperature alarm
Fan, Supply drive	Alarm	Standard	ECsupMIRVhi	1x0204	xxx	BI42	xxx	0	1	OU-ECI-DV-supply air motor phase error
Fan, Supply drive	Alarm	Standard	ECsupRotBokled	1x0205	xxx	BI44	xxx	0	1	OU-ECI-DV-supply air motor alarm for blocked rotor
Fan, Supply drive	Alarm	Standard	ECsupMIRHilim	1x0206	xxx	BI37	xxx	0	1	OU-ECI-DV-supply air motor high current limit; shortcircuit protection
Fan, Extract drive	Alarm	Standard	ECextMIRVio	1x0207	xxx	BI46	xxx	0	1	OU-ECI-DV-extract/exhaust motor voltage low alarm
Fan, Extract drive	Alarm	Standard	ECextMIRVhi	1x0208	xxx	BI47	xxx	0	1	OU-ECI-DV-extract/exhaust motor voltage high alarm
Fan, Extract drive	Alarm	Standard	ECextMIRVhi	1x0209	xxx	BI48	xxx	0	1	OU-ECI-DV-extract/exhaust motor high current limit alarm
Fan, Extract drive	Alarm	Standard	ECextMIRVhi	1x0210	xxx	BI49	xxx	0	1	OU-ECI-DV-extract/exhaust motor temperature alarm
Fan, Extract drive	Alarm	Standard	ECextMIRVhi	1x0211	xxx	BI50	xxx	0	1	OU-ECI-DV-extract/exhaust motor alarm for phase error
Fan, Extract drive	Alarm	Standard	ECextRotBokled	1x0212	xxx	BI52	xxx	0	1	OU-ECI-DV-extract/exhaust motor alarm for blocked rotor
IO Extension module	Alarm	Standard	ECextMIRHilim	1x0213	xxx	BI45	xxx	0	1	OU-ECI-DV-extract/exhaust motor high current limit; shortcircuit protection
IO Extension module	Alarm	Standard	AIEXIO1_Comm	1x0214	xxx	BI58	xxx	0	1	Extension IO-Modul no. 1 - communication error
IO Extension module	Alarm	Standard	AIEXIO2_Comm	1x0215	xxx	BI59	xxx	0	1	Extension IO-Modul no. 2 - communication error
IO Extension module	Alarm	Standard	AIEXIO3_Comm	1x0216	xxx	BI60	xxx	0	1	Extension IO-Modul no. 3 - communication error
IO Extension module	Alarm	Standard	AIEXIO4_Comm	1x0217	xxx	BI61	xxx	0	1	Extension IO-Modul no. 4 - communication error
IO Extension module	Alarm	Standard	AIEXIO5_Comm	1x0218	xxx	BI62	xxx	0	1	Extension IO-Modul no. 5 - communication error
IO Extension module	Alarm	Standard	AIEXIO6_Comm	1x0219	xxx	BI63	xxx	0	1	Extension IO-Modul no. 6 - communication error
IO Extension module	Alarm	Standard	AIEXIO7_Comm	1x0220	xxx	BI64	xxx	0	1	Extension IO-Modul no. 7 - communication error
IO Extension module	Alarm	Standard	AIEXIO8_Comm	1x0221	xxx	BI65	xxx	0	1	Extension IO-Modul no. 8 - communication error
Temp. sensor	Alarm	Special	AIRAddOnSens1	1x0222	xxx	BI67	xxx	0	1	Add sensor 1 - Sensor error
Temp. sensor	Alarm	Special	AIRAddOnSens2	1x0223	xxx	BI68	xxx	0	1	Add sensor 2 - Sensor error
Temp. sensor	Alarm	Special	AIRAddOnSens3	1x0224	xxx	BI69	xxx	0	1	Add sensor 3 - Sensor error
Temp. sensor	Alarm	Special	AIRAddOnSens4	1x0225	xxx	BI70	xxx	0	1	Add sensor 4 - Sensor error
Cooling, DX	Status	Special	ROHRRFaActiv	1x0226	xxx	BI74	xxx	0	1	Special customer code functionality
Combi coil	Status	Standard	CombiEnCRinMB	NA	xxx	BI75	4-18	0	1	CombiCoil enable Heat/Cool ctrl via MB
Combi coil	Status	Standard	Combi2CoolRel	1x0227	xxx	BI73	xxx	0	1	Combi coil; Cooling relay no. 2 active

Fan, Supply drive	Alarm	Standard	ECsupEEP_Err	1x0228	xxx	BI178	xxx	0	1	Supply air fan EEprom error
Fan, Extract drive 2	Alarm	Special	EC2supEEP_Err	1x0229	xxx	BI179	xxx	0	1	Supply air fan 2 EEprom error
Fan, Extract drive	Alarm	Standard	ECxEEP_Err	1x0230	xxx	BI180	xxx	0	1	Exhaust air fan EEprom error
Fan, Extract drive 2	Alarm	Special	EC2xEEP_Err	1x0231	xxx	BI181	xxx	0	1	Exhaust air fan 2 EEprom error
Temp. sensor	Alarm	Standard	TH6040CommAir	1x0232	xxx	BI182	xxx	0	1	TH-6040 communication error
Cooling, DX	Alarm	Standard	LowOilDXHPAir	1x0233	xxx	BI183	xxx	0	1	Low oil level cooling compressor
AHU controller	Fire	Standard	AiFireWarnStop	1x0234	xxx	BI203	xxx	0	1	Fire main stop
Damper, Smoke evac.	Smoke	Standard	AiSmokeEvac	1x0235	xxx	BI204	xxx	0	1	Smoke evacuation activated
Temp. Room	Alarm	Standard	BMSRoomTOOR	1x0236	xxx	BI201	xxx	0	1	BMS room sensor out of range
Temp. Out door	Alarm	Standard	BMSOutDOOR	1x0237	xxx	BI202	xxx	0	1	BMS outdoor temperature out of range
Fan, Smoke evac.	Alarm	Standard	AiSmokeEvacFan	1x0238	xxx	BI205	xxx	0	1	Smoke evacuation fan alarm
Damper, Fresh air	Status	Standard	StatInRel	1x0240	xxx	BI206	xxx	0	1	Output for supply air damper active
Damper, Recirculation	Status	Standard	StatRecRel	1x0241	xxx	BI207	xxx	0	1	Output for recirculation damper active
Temp. Out door	Status	Standard	ExOutdoorSensErr	1x0242	xxx	BI208	xxx	0	1	External outdoor temperature sensor - sensor error
Preheater coil, water	Alarm	Standard	PHTtempSensErr	1x0243	xxx	BI209	xxx	0	1	Temperature sensor pre-heater - sensor error
Cooling coil	Alarm	Standard	CW_J_TSensorErr	1x0244	xxx	BI210	xxx	0	1	Cooling water supply temperature - sensor error
Heating coil 1, Electric	Status	Standard	Heat_RE26	1x0246	xxx	BI217	xxx	0	1	Heating relay26 (ExtMod-Reserve)
Combi coil	Status	Standard	Combi_PumpRE	1x0247	xxx	BI218	xxx	0	1	Pump relay combi coil activated
Heating coil 2, Electric	Alarm	Standard	EL2_OverHBac	1x0248	xxx	BI211	xxx	0	1	Electric coil 2: High temperature alarm signal
Heating coil 2, Electric	Alarm	Standard	AiHBac2Contact	1x0249	xxx	BI222	xxx	0	1	Electric coil 2: Relay stuck
Filter	Alarm	Standard	OutFilterAirOn	1x0250	xxx	BI223	xxx	0	1	Alarm - Time is out for filter change supply air filter
Filter	Alarm	Standard	ExFilterAirOn	1x0251	xxx	BI224	xxx	0	1	Alarm - Time is out for filter change exhaust air filter
Calibration	Calibration	Standard	FillCallDone	NA	xxx	BI227	xxx	0	1	0 Filter Calibration done (valid filterpress data) DYNAMICMODE ONLY
Fan	Speed	Standard	ExDriftMePeriod	NA	xxx	BI228	xxx	0	1	0 Input for forced medium speed
Fan, Supply drive	Alarm	Standard	FCAlSupPolim	1x0252	xxx	BI229	xxx	0	1	Alarm - Supply air fan, Power limit
Fan, Extract drive	Alarm	Standard	FCAlExpPolim	1x0253	xxx	BI230	xxx	0	1	Alarm - Exhaust air fan, Power limit
Fan, Extract drive	Alarm	Standard	FCAlEXDVRBk	1x0254	xxx	BI231	xxx	0	1	Alarm - Supply air fan DV-FC Rotor blocked
Fan, Extract drive	Alarm	Standard	FCAlEXDVRBk	1x0255	xxx	BI232	xxx	0	1	Alarm - Exhaust air fan, DV-FC Rotor blocked
Fan, Supply drive	Alarm	Standard	DVAiSupStop	1x0256	xxx	BI233	xxx	0	1	Alarm - Supply air fan1, High Current Stop
Fan, Supply drive 2	Alarm	Standard	DVAiSup2Stop	1x0257	xxx	BI234	xxx	0	1	Alarm - Supply air fan2, High Current Stop
Fan, Extract drive	Alarm	Standard	DVAiExtStop	1x0258	xxx	BI235	xxx	0	1	Alarm - Exhaust air fan1, High Current Stop
Fan, Extract drive 2	Alarm	Standard	DVAiExt2Stop	1x0259	xxx	BI236	xxx	0	1	Alarm - Exhaust air fan2, High Current Stop
Combi coil	Status	Standard	CmbHeatState	1x0260	xxx	BI237	xxx	0	1	Status combi coil = Heating
Combi coil	Status	Standard	CmbCoolState	1x0261	xxx	BI238	xxx	0	1	Status combi coil = Heating
Preheater coil, electric	Alarm	Standard	Pre_OverHBac	1x0262	xxx	BI239	xxx	0	1	Alarm = over heating pre-heater
Preheater coil, electric	Alarm	Standard	AiPhContact	1x0263	xxx	BI240	xxx	0	1	Alarm = preheater relay hanging
Fan, Supply drive	Alarm	Standard	ECExHiOAr	1x0264	xxx	BI241	xxx	0	1	Alarm OJ-EC/DV supply air = High IO current
Fan, Extract drive	Alarm	Standard	ECExHiOAr	1x0265	xxx	BI242	xxx	0	1	Alarm OJ-EC/DV extract air = High IO current
Fan, Extract drive	Alarm	Special	EC2xHiOAr	1x0266	xxx	BI243	xxx	0	1	Alarm OJ-EC/DV2 supply air = High IO current
Fan, Supply drive 2	Alarm	Special	EC2xHiOAr	1x0267	xxx	BI244	xxx	0	1	Alarm OJ-EC/DV2 extract air = High IO current
Fan, Extract drive 2	Alarm	Standard	AiCommCVMMini	1x0268	4.21	NA	4.21	0	1	Communication CVM Mini Meter
CVM Mini Meter	Alarm	Standard	AiCommCVMCool	1x0269	4.21	NA	4.21	0	1	Communication CVM Mini Cool Meter
Fan, supply	Alarm	Standard	AiSupFanStop	1x0270	4.18	BI245	4.18	0	1	B-Air SupFan is stopped
HMI display	Alarm	Standard	AiCommHM20	1x0271	4.18	NA	NA	0	1	A-Air Comm Error HM20
Damper, Smoke evac.	Alarm	Special	AiSMEvacDmp	1x0272	4.18	BI246	4.18	0	1	Smoke Evac Damper not in position
Damper, Smoke evac.	Alarm	Special	AiSMBPassDmp	1x0273	4.18	BI247	4.18	0	1	Smoke Bypass Damper not in position
Pressure	Alarm	Standard	DPTH_1CommAir	1x0274	4.18	BI248	4.18	0	1	Communication Alarm DPTH1
Pressure	Alarm	Standard	DPTH_2CommAir	1x0275	4.18	BI249	4.18	0	1	Communication Alarm DPTH2
Pressure	Alarm	Standard	DPTH_3CommAir	1x0276	4.18	BI250	4.18	0	1	Communication Alarm DPTH3
Pressure	Alarm	Standard	DPTH_4CommAir	1x0277	4.18	BI251	4.18	0	1	Communication Alarm DPTH4
Pressure	Alarm	Standard	DPTH_5CommAir	1x0278	4.18	BI252	4.18	0	1	Communication Alarm DPTH5
Filter	Alarm	Standard	SupFilterAirOn	1x0279	4.18	BI255	4.18	0	1	Alarm from Supplyfilter2timer
Heating	Alarm	Standard	ExFilterAirOn	1x0281	4.18	BI83	4.18	0	1	Alarm frost thermostat alarm (digital input)
Fan, Supply drive 2	Alarm	Special	EC2sup_ErrDir	1x0282	4.18	BI125	4.18	0	1	OJ-EC/DV2-Supply air motor Direction error
Fan, Extract drive 2	Alarm	Special	EC2xt_ErrDir	1x0283	4.18	BI133	4.18	0	1	OJ-EC/DV-ExtractMotor Direction error
Fan, Supply drive 2	Alarm	Special	AiEC2SupCom	1x0284	4.18	BI135	4.18	0	1	OJ-EC/DV2 Supply Comm Alarm
Fan, Extract drive 2	Alarm	Special	AiEC2ExtCom	1x0285	4.18	BI136	4.18	0	1	OJ-EC/DV2 Extract Comm Alarm
Fan, Supply drive	Alarm	Standard	ECsup_ErrDir	1x0286	4.18	BI143	4.18	0	1	OJ-EC/DV3SupplyMotor Direction error
Fan, Extract drive	Alarm	Standard	ECxExt_ErrDir	1x0287	4.18	BI151	4.18	0	1	OJ-EC/DV-ExtractMotor Direction error
Fan, Supply drive	Alarm	Standard	AiOJ_ECS_Comm	1x0288	4.18	BI153	4.18	0	1	OJ-EC/DV Supply Comm Alarm
Fan, Extract drive	Alarm	Standard	AiOJ_ECE_Comm	1x0289	4.18	BI154	4.18	0	1	OJ-EC/DV Extract Comm Alarm
Damper, Smoke evac.	Alarm	Special	AiBDRRes7Com	1x0290	4.18	BI156	4.18	0	1	Communication Alarm Belimo ResNo7 Damper
Damper, Smoke evac.	Alarm	Special	AiBDRRes7Pos	1x0291	4.18	BI157	4.18	0	1	Communication Alarm Belimo ResNo7 Damper
Temp. sensor	Alarm	Special	AiSupTemp2	1x0292	4.18	BI166	4.18	0	1	SuppSensor 2 alarm
Fan, Supply drive	Alarm	Standard	AiSupMtr	1x0293	4.18	BI171	4.18	0	1	ExtMotor Alarm
Fan, Extract drive	Alarm	Standard	AiExtMtr	1x0294	4.18	BI172	4.18	0	1	Alarm Avt Communication alarm Supply
Fan, ATV drive	Alarm	Special	AiFANSupComm	1x0295	4.18	BI86	4.18	0	1	Alarm Avt Communication alarm Extract
Fan, ATV drive	Alarm	Special	AiFANExtComm	1x0296	4.18	BI87	4.18	0	1	Alarm Avt Communication alarm Extract
Fan, ATV drive	Alarm	Special	AiFANSupFC	1x0297	4.18	BI88	4.18	0	1	Alarm Avt FC Supply
Fan, ATV drive	Alarm	Special	AiFANExtFC	1x0298	4.18	BI89	4.18	0	1	Alarm Avt FC Extract
Preheater coil, electric	Alarm	Special	AiDeIceCont	1x0299	4.18	BI101	4.18	0	1	Contact error Deicer El-coil
Preheater coil, electric	Alarm	Special	AiDeIceOverh	1x0300	4.18	BI102	4.18	0	1	Deicer overheatingalarm El-coil
Preheater coil, electric	Alarm	Special	AiDeIceReduct	1x0301	4.18	BI103	4.18	0	1	Deicer power reduction alarm El-coil



Filter	Current value	Standard	Pa	SupFillPaAvr	Pa	3x0031	x.xx	A127	x.xx	0	5000	supply filter pressure [1/100Pa]	
Filter	Current value	Standard	Pa	ExFillPaAvr	Pa	3x0032	x.xx	A128	x.xx	0	5000	Extract filter pressure [1/100Pa]	
Filter	Average value	Standard	Pa	FillSupFlowAvr	Pa	3x0033	x.xx	NA	x.xx	0	2000	Average filter supply flow - for internal use only in connection to dynamic filter suvellance [1/100Pa]	
Fan	Setpoint	Standard	%	SupMotorSet	%	3x0034	x.xx	A129	x.xx	0	10000	supply motor signal setpoint [1/100%]	
Filter	Average value	Standard	Pa	FillExFlowAvr	Pa	3x0035	x.xx	NA	x.xx	0	2000	Average filter exhaust flow - for internal use only in connection to dynamic filter suvellance [1/100Pa]	
Fan	Setpoint	Standard	%	ExMotorSet	%	3x0036	x.xx	A130	x.xx	0	10000	Extract motor signal setpoint [%]	
Filter	Average value	Standard	Pa	FillSupPaAvr	Pa	3x0037	x.xx	NA	x.xx	0	3000	Average supply pressure [1/100Pa/30]	
Filter	Average value	Standard	Pa	FillExPaAvr	Pa	3x0038	x.xx	NA	x.xx	0	3000	Average exfiltrator pressure [1/100Pa/30]	
Filter	Setpoint	Standard	Pa	FillSupAlrPa	Pa	3x0039	x.xx	A131	x.xx	0	100	supply filter monitor max. alarm limit [Pa] ONLY IN DYNAMIC MODE (70° IS STATIC MODE)	
Filter	Setpoint	Standard	Pa	FillExAlrPa	Pa	3x0040	x.xx	A132	x.xx	0	100	Extract filter monitor max. alarm limit [Pa] ONLY IN DYNAMIC MODE (70° IS STATIC MODE)	
Temp. heat pump	Current value	Special	°C	HP_OutCoilTmp	°C	3x0041	x.xx	NA	NA	0	4000	Actual outdoor temperature near outdoor heat pump parts [1/100°C]	
Heat exchanger	Current value	Standard	%	EXCActualEff	%	3x0042	x.xx	A1108	x.xx	0	10000	Heat exchanger efficiency [1/100%]	
Fan. ATV drive	Alarm	Special		AlrSupFCType		3x0043	x.xx	A1106	x.xx	0	30000	Supply ATV frequency converter - Actual FC type	
Fan. ATV drive	Alarm	Special		AlrExFCType		3x0044	x.xx	A1107	x.xx	0	30000	Exhaust ATV frequency converter - Actual FC type	
Filter	Setpoint	Standard	Pa	FillSup2AlrPa	Pa	3x0045	4.18		x.xx	0	100	Filter pressure for alarm-limit at actual flow [Pa] DYNAMICMODE ONLY (zero in staticmode)	
Filter	Setpoint	Standard	Pa	FillEx2AlrPa	Pa	3x0046	4.18		x.xx	0	100	Filter pressure for alarm-limit at actual flow [Pa] DYNAMICMODE ONLY (zero in staticmode)	
Filter	Average value	Standard	Pa	SupFill2PaAvr	Pa	3x0047	4.18	A1130	x.xx	0	5000	Extract 2 FlowPressure (Avr-Meas) [1/100Pa]	
AHU controller	Setpoint	Standard	%	FlwTmpCompOut	%	3x0049	4.18	A1131	4.18	0	5000	Temp. compensated flow setpoint percentage [1/100%]	
AHU controller	Setpoint	Standard	°C	SWTC_ActSetOfs	°C	3x0050	x.xx	A133	x.xx	0	10000	Summer/Winter temp. compensation of actual setpoint offset [1/100°C]	
AHU controller	Setpoint	Standard	Sec	SN_HeatTime	Sec	3x0051	x.xx	A134	x.xx	-1000	0	10000	Summer/Night Time with Heat Demand [sec]
Heat exchanger	Setpoint	Standard	%	HeatEXCPower	%	3x0052	x.xx	NA	NA	0	30000	Heat exchange controller heating power [1/100%]	
Heating	Setpoint	Standard	%	HeatPower	%	3x0053	x.xx	A135	x.xx	0	10000	Actual heating power [1/100%]	
Cooling coil	Setpoint	Standard	%	CoolPower	%	3x0054	x.xx	A136	x.xx	0	10000	Actual cooling power [1/100%]	
Cooling coil	Setpoint	Standard	%	CoolActPower	%	3x0055	x.xx	A137	x.xx	0	10000	Cooling forced flow power [1/100%]	
Cooling coil	Setpoint	Standard	%	CoolFlwForcePw	%	3x0056	x.xx	A138	x.xx	0	10000	Cooling alarm 1 transducer signal [1/100%]	
Cooling coil	Setpoint	Standard	%	CoolVln1Alarm	%	3x0057	x.xx	A139	x.xx	0	10000	Cooling alarm 2 transducer signal [1/100%]	
Cooling coil	Setpoint	Standard	%	CoolVln2Alarm	%	3x0058	x.xx	A140	x.xx	0	10000	Cooling alarm 3 transducer signal [1/100%]	
Cooling coil	Setpoint	Standard	%	CoolVln3Alarm	%	3x0059	x.xx	A141	x.xx	0	10000	Cooling alarm 4 transducer signal [1/100%]	
Cooling coil	Setpoint	Standard	%	CoolVln4Alarm	%	3x0060	x.xx	A142	x.xx	0	10000	Cooling alarm 5 transducer signal [1/100%]	
Cooling coil	Setpoint	Standard	Bar	C_LoPress1Bar	Bar	3x0061	x.xx	A143	x.xx	0	10000	Actual low pressure sensor 1 [1/100 bar]	
Cooling coil	Setpoint	Standard	Bar	C_HIPress1Bar	Bar	3x0062	x.xx	A144	x.xx	0	10000	Actual high pressure sensor 1 [1/100 bar]	
Cooling coil	Setpoint	Standard	Bar	C_LoPress2Bar	Bar	3x0063	x.xx	A145	x.xx	0	10000	Actual low pressure sensor 2 [1/100 bar]	
Cooling coil	Setpoint	Standard	Bar	C_HIPress2Bar	Bar	3x0064	x.xx	A146	x.xx	0	10000	Actual high pressure sensor 2 [1/100 bar]	
Cooling coil	Setpoint	Standard	%	Heat2Power	%	3x0065	x.xx	A147	x.xx	0	10000	Heating 2 - Regulator power [1/100%]	
Heater coil 2	Setpoint	Standard	%	Heat2Power	%	3x0066	x.xx	A103	x.xx	0	10000	Supply motor type (only with OJ-FC)	
Fan. Supply drive	Current value	Standard	W	FCsupMtrType	W	3x0070	x.xx	A148	x.xx	0	256	Supply motor software version [1/100] (only with OJ-FC)	
Fan. Supply drive	SW version	Standard	%	FCsupMtrFC_SW	%	3x0071	x.xx	A149	x.xx	0	1000	Supply motor IO card software version [1/100] (only with OJ-FC)	
Fan. Supply drive	Current value	Standard	Hz	FCsupMtrIO_SW	Hz	3x0072	x.xx	A150	x.xx	0	1000	Supply motor output percentage [1/100%] (only with OJ-FC)	
Fan. Supply drive	Current value	Standard	Hz	FCsupMtrPrcOut	Hz	3x0073	x.xx	A151	x.xx	0	10000	Supply motor frequency output [1/100 Hz] (only with OJ-FC)	
Fan. Supply drive	Current value	Standard	mA	FCsupMtrHzOut	mA	3x0074	x.xx	A152	x.xx	0	10000	Supply motor actual current output [mA] (only with OJ-FC)	
Fan. Supply drive	Current value	Standard	W	FCsupMtrPrcSet	W	3x0075	x.xx	A153	x.xx	0	30000	Supply motor actual power output [Watt] (only with OJ-FC)	
Fan. Supply drive	Setpoint	Standard	J/m	FCsupMtrPrcSet	J/m	3x0076	x.xx	A154	x.xx	0	6000	Supply motor actual power output [Watt] (only with OJ-FC)	
Fan. Supply drive	Current value	Standard	J/m	FCsupMtrPrcSet	J/m	3x0077	x.xx	A155	x.xx	0	10000	Specific fan power (SFP), supply [W·s/m³ = J/m³] (only with OJ-FC)	
Fan. Extract drive	Current value	Standard	%	FCextMtrType	%	3x0078	x.xx	A156	x.xx	0	10000	Extract motor software version [1/100] (only with OJ-FC)	
Fan. Extract drive	SW version	Standard	%	FCextMtrFC_SW	%	3x0080	x.xx	A157	x.xx	0	256	Extract motor IO card software version [1/100] (only with OJ-FC)	
Fan. Extract drive	Current value	Standard	Hz	FCextMtrIO_SW	Hz	3x0081	x.xx	A158	x.xx	0	1000	Extract motor frequency output [1/100%] (only with OJ-FC)	
Fan. Extract drive	Current value	Standard	Hz	FCextMtrPrcOut	Hz	3x0082	x.xx	A159	x.xx	0	10000	Extract motor actual current output [mA] (only with OJ-FC)	
Fan. Extract drive	Current value	Standard	W	FCextMtrHzOut	W	3x0083	x.xx	A160	x.xx	0	10000	Extract motor actual power output [Watt] (only with OJ-FC)	
Fan. Extract drive	Setpoint	Standard	%	FCextMtrPrcSet	%	3x0084	x.xx	A161	x.xx	0	30000	Specific fan power (SFP), extract [W·s/m³ = J/m³] (only with OJ-FC)	
Fan. Extract drive	Current value	Standard	J/m	FCextMtrPrcSet	J/m	3x0085	x.xx	A162	x.xx	0	10000	Rotary heat exchanger - motor type (only with OJ-RHX2M)	
Fan. Extract drive	Current value	Standard	J/m	FCextMtrPrcSet	J/m	3x0086	x.xx	A163	x.xx	0	10000	Rotary heat exchanger - software version [1/100] (only with OJ-RHX2M)	
Heat exchanger drive	Current value	Standard	%	EXC_Type	%	3x0087	x.xx	A164	x.xx	0	3	Rotary heat exchanger - speed output [1/100 rpm]	
Heat exchanger drive	SW version	Standard	%	EXC_Type	%	3x0088	x.xx	A165	x.xx	0	10000	Rotary heat exchanger - percentage [1/100%]	
Heat exchanger drive	Current value	Standard	rpm	EXC_PrcOut	rpm	3x0091	x.xx	A167	x.xx	0	10000	Rotary heat exchanger - actual output [mA] (only with OJ-RHX2M)	
Heat exchanger drive	Current value	Standard	mA	EXC_PrcOut	mA	3x0092	x.xx	A168	x.xx	0	20000	Rotary heat exchanger - output power [W] (only with OJ-RHX2M)	
Heat exchanger drive	Current value	Standard	Day	EXC_Iout	Day	3x0094	x.xx	A170	x.xx	0	10000	Rotary heat exchanger - days of operation (only with OJ-RHX2M)	
Heat exchanger drive	Setpoint	Standard	%	EXC_Power	%	3x0095	x.xx	A171	x.xx	0	100	Extension module 1 software version [1/100]	
Heat exchanger drive	Setpoint	Standard	%	EXC_PrcSet	%	3x0096	x.xx	A172	x.xx	0	32000	Actual temperature of pre-heating coil [1/100°C]	
IO Extension module	SW version	Standard	Ver	EXTM1_SW_Ver	Ver	3x0097	x.xx	A173	x.xx	0	10000	Actual day of the week (0=Mon, 6=Sun)	
IO Extension module	SW version	Standard	Ver	EXTM2_SW_Ver	Ver	3x0100	x.xx	A174	x.xx	0	10000	Extended operation, remaining number of days	
Preheater coil	Current value	Standard	°C	PHWMTemp	°C	3x0101	x.xx	A175	x.xx	0	4000	Extended operation, remaining number of minutes	
Preheater coil	Setpoint	Standard	%	PH_HeatPower	%	3x0102	x.xx	A105	x.xx	0	10000		
AHU controller	Time	Standard	Day	TimeSwWeekDay	Day	3x0103	x.xx	A104	x.xx	0	6		
AHU controller	Status	Standard	Left	ExDriftDaysLeft	Left	3x0111	x.xx	A176	x.xx	0	6		
AHU controller	Status	Standard	Left	ExDriftMinLeft	Left	3x0112	x.xx	A178	x.xx	0	1439		

Device	Unit	Value	Standard	Current value	Special	Pa	3x0115	xxx	AI110	xxx	0	5000	Actual pressure at the heat pump outdoor coil.
Heat pump	Alarm	Alarm	Standard	Current value	Special	HP_CoilPaMeas	3x0120	xxx	AI110	xxx	0	5000	Actual pressure at the heat pump outdoor coil.
AHU controller	Alarm	Alarm	Standard	Current value	Special	AI1_Released00	3x0121	xxx	AI80	xxx	0	100	Stack for active alarms (0 indicates end of stack)
AHU controller	Alarm	Alarm	Standard	Current value	Special	AI1_Released01	3x0122	xxx	AI81	xxx	0	100	Stack for active alarms (0 indicates end of stack)
AHU controller	Alarm	Alarm	Standard	Current value	Special	AI1_Released02	3x0123	xxx	AI82	xxx	0	100	Stack for active alarms (0 indicates end of stack)
AHU controller	Alarm	Alarm	Standard	Current value	Special	AI1_Released03	3x0124	xxx	AI83	xxx	0	100	Stack for active alarms (0 indicates end of stack)
AHU controller	Alarm	Alarm	Standard	Current value	Special	AI1_Released04	3x0125	xxx	AI84	xxx	0	100	Stack for active alarms (0 indicates end of stack)
AHU controller	Alarm	Alarm	Standard	Current value	Special	AI1_Released05	3x0126	xxx	AI85	xxx	0	100	Stack for active alarms (0 indicates end of stack)
AHU controller	Alarm	Alarm	Standard	Current value	Special	AI1_Released06	3x0127	xxx	AI86	xxx	0	100	Stack for active alarms (0 indicates end of stack)
AHU controller	Alarm	Alarm	Standard	Current value	Special	AI1_Released07	3x0128	xxx	AI87	xxx	0	100	Stack for active alarms (0 indicates end of stack)
AHU controller	Alarm	Alarm	Standard	Current value	Special	AI1_Released08	3x0129	xxx	AI88	xxx	0	100	Stack for active alarms (0 indicates end of stack)
AHU controller	Alarm	Alarm	Standard	Current value	Special	AI1_Released09	3x0130	xxx	AI89	xxx	0	100	Stack for active alarms (0 indicates end of stack)
AHU controller	Alarm	Alarm	Standard	Current value	Special	AI1_Released10	3x0131	xxx	AI90	xxx	0	100	Stack for active alarms (0 indicates end of stack)
AHU controller	Alarm	Alarm	Standard	Current value	Special	AI1_Released11	3x0132	xxx	AI91	xxx	0	100	Stack for active alarms (0 indicates end of stack)
AHU controller	Alarm	Alarm	Standard	Current value	Special	AI1_Released12	3x0133	xxx	AI92	xxx	0	100	Stack for active alarms (0 indicates end of stack)
AHU controller	Alarm	Alarm	Standard	Current value	Special	AI1_Released13	3x0134	xxx	AI93	xxx	0	100	Stack for active alarms (0 indicates end of stack)
AHU controller	Alarm	Alarm	Standard	Current value	Special	AI1_Released14	3x0135	xxx	AI94	xxx	0	100	Stack for active alarms (0 indicates end of stack)
AHU controller	Alarm	Alarm	Standard	Current value	Special	AI1_Released15	3x0140	xxx	AI95	xxx	0	30000	Master software version [1/100]
HMI display	SW version	SW version	Standard	Current value	Special	MastersW_Ver	3x0141	xxx	AI96	xxx	0	30000	Display software version [1/100]
Damper, Fire	Alarm	Alarm	Standard	Current value	Special	DisplaySW_Ver	3x0142	xxx	AI96	xxx	0	1	Alarm, Fire damper not closed
Damper, Fire	Alarm	Alarm	Standard	Current value	Special	AI1FireDmpNClis	3x0143	xxx	NA	NA	0	1	Alarm, Fire damper not open
Damper, Fire	Status	Status	Standard	Current value	Special	AI1FireDmpNOpn	3x0144	xxx	NA	NA	0	1	Fire damper test is ongoing
Cooling, DX	Status	Status	Standard	Current value	Special	FireDmpTstActv	3x0145	xxx	NA	NA	0	600	Timer for DX-Cool RE-1 ON-Period [sec] (ExtMod-Reserve)
Cooling, DX	Status	Status	Standard	Current value	Special	DX_OnTimerRE1	3x0146	xxx	NA	NA	0	600	Timer for DX-Cool RE-2 ON-Period [sec] (ExtMod-Reserve)
Cooling, DX	Status	Status	Standard	Current value	Special	DX_OnTimerRE2	3x0147	xxx	NA	NA	0	600	Timer for DX-Cool RE-3 ON-Period [sec] (ExtMod-Reserve)
Cooling, DX	Status	Status	Standard	Current value	Special	DX_OnTimerRE3	3x0148	xxx	NA	NA	0	600	Timer for DX-Cool RE-4 ON-Period [sec] (ExtMod-Reserve)
Cooling, DX	Status	Status	Standard	Current value	Special	DX_OnTimerRE4	3x0149	xxx	NA	NA	0	60	Counter for DX-Cool RE-1 starts per hour (ExtMod-Reserve)
Heating coil 2, Water	Status	Status	Standard	Current value	Special	DX_RestartCnt1	3x0150	xxx	NA	NA	0	4000	Heating 2 - Hydronic coil return temperature [1/100 °C]
Cooling, DX	Status	Status	Standard	Current value	Special	HWZBattTemp	3x0151	xxx	NA	NA	0	60	Counter for DX-Cool RE-3 starts per hour (ExtMod-Reserve)
Cooling, DX	Status	Status	Standard	Current value	Special	DX_RestartCnt3	3x0152	xxx	NA	NA	0	60	Counter for DX-Cool RE-4 starts per hour (ExtMod-Reserve)
Cooling, DX	Status	Status	Standard	Current value	Special	DX_RestartCnt4	3x0153	xxx	NA	NA	0	3600	Timer 1 for min. restart period [sec]
Cooling, DX	Status	Status	Standard	Current value	Special	DX_RestartTim1	3x0154	xxx	NA	NA	0	3600	Timer 2 for min. restart period [sec]
Cooling, DX	Status	Status	Standard	Current value	Special	DX_RestartTim2	3x0155	xxx	NA	NA	0	3600	Timer 3 for min. restart period [sec]
Cooling, DX	Status	Status	Standard	Current value	Special	DX_RestartTim3	3x0156	xxx	NA	NA	0	3600	Timer 4 for min. restart period [sec]
Cooling, DX	Status	Status	Standard	Current value	Special	DX_RestartTim4	3x0157	xxx	NA	NA	0	10000	Filter actual alarm status for sub-filter [1/100%]
Filter	Current value	Current value	Standard	Current value	Special	FIEXPrctStat	3x0158	xxx	NA	NA	0	10000	Filter pressure for new-filter at actual flow [Pa]
Filter	Current value	Current value	Standard	Current value	Special	FIEXNewPa	3x0159	xxx	NA	NA	0	100	Filter pressure for new-filter at actual flow [Pa]
Temp. sensor	Current value	Current value	Special	Current value	Special	FIEXNewPa	3x0160	xxx	NA	NA	0	100	Add on sensor 1 [1/100°C]
Temp. sensor	Current value	Current value	Special	Current value	Special	AddOnTSensor1	3x0161	xxx	AI97	xxx	0	5000	Add on sensor 2 [1/100°C]
Temp. sensor	Current value	Current value	Special	Current value	Special	AddOnTSensor2	3x0162	xxx	AI98	xxx	0	5000	Add on sensor 3 [1/100°C]
Temp. sensor	Current value	Current value	Special	Current value	Special	AddOnTSensor3	3x0163	xxx	AI99	xxx	0	5000	Add on sensor 4 [1/100°C]
Fan	Current value	Current value	Standard	Current value	Standard	AddOnTSensor4	3x0164	xxx	AI100	xxx	0	10000	0-10 V DC signal to supply motor
Cooling, DX	Setpoint	Setpoint	Standard	Current value	Standard	MirFanSupVin	NA	xxx	AI101	xxx	0	10000	0-10 V DC signal to extract motor
Cooling, DX	Setpoint	Setpoint	Special	Current value	Special	ROHCondPower	3x0165	xxx	AI102	xxx	0	10000	Only special customer code: Step-up valve - Output [1/100%]
Cooling, DX	Setpoint	Setpoint	Special	Current value	Special	ROHCondOutVDC	3x0166	xxx	NA	NA	0	10000	Only special customer code: Step-up valve - Voltage [1/1000 V]
Cooling, DX	Setpoint	Setpoint	Special	Current value	Special	ROHShutPower	3x0167	xxx	NA	NA	0	10000	Only special customer code: Condenser coil - Output [1/100%]
Humidifier	Setpoint	Setpoint	Standard	Current value	Standard	ROHShutOutVDC	3x0168	xxx	NA	NA	0	10000	Only special customer code: Shunt valve - Voltage [1/1000 V]
Humidity	Current value	Current value	Standard	Current value	Standard	Humid_OutVDC	3x0169	xxx	NA	NA	0	10000	Output to Steam Humidifier [1/1000 V]
Humidity	Current value	Current value	Standard	Current value	Standard	Humid_AcRHSHup	3x0170	xxx	AI128	xxx	0	10000	Actual % rel. Humidity Supply duct [1/100%rh]
Heating coil 12	Setpoint	Setpoint	Special	Current value	Special	Humid_AcRHSEXT	3x0171	xxx	AI127	xxx	0	10000	Actual % rel. Humidity Extract duct [1/100%rh]
Damper, Recirculation	Status	Status	Special	Current value	Special	HW12_VDCCOut	NA	xxx	AI109	xxx	0	10000	Only special customer code: Actual status change flow recirc. - 0=No change; 1=Low to high; 2=High to low
Heating coil 2	Status	Status	Special	Current value	Special	RecAlFFlowAct	3x0172	xxx	AI111	xxx	0	2	Only special customer code: Actual status change flow recirc. - 0=No change; 1=Low to high; 2=High to low
Heat exchanger	Status	Status	Special	Current value	Special	HE2DelayTimer	3x0174	xxx	AI112	xxx	0	7200	Only special customer code: Timer delayed Heat2 [Sec]
Combi coil	Setpoint	Setpoint	Standard	Current value	Standard	REXCPrctAssAvg	3x0175	xxx	NA	NA	0	2000	Only special customer code: Actual press. drop over rotary exch. in exhaust air [Pa]
Combi coil	Setpoint	Setpoint	Standard	Current value	Standard	CombVDC_Out	3x0176	xxx	AI113	xxx	0	10000	Combi coil VDC-Signal [1/1000 V]
Combi coil	Setpoint	Setpoint	Standard	Current value	Standard	CombHeatPov	3x0177	xxx	AI114	xxx	0	10000	Combi coil %-Signal Heating [1/100 %]
Fan, Supply drive 2	Current value	Current value	Special	Current value	Special	HeatPmpHeatPow	3x0178	xxx	NA	NA	0	10000	Heat pump efficiency in heat demand. Else CoolPower [1/100 %]
Fan, Supply drive 2	Current value	Current value	Special	Current value	Special	EC2supMTCool	3x0179	xxx	NA	NA	0	256	Only special customer code: OJ-EC-DV 2-supply/Supply air motor Type
Fan, Supply drive 2	Current value	Current value	Special	Current value	Special	EC2supMEC_SW	3x0180	xxx	NA	NA	0	1000	Only special customer code: OJ-EC-DV 2-supply/Supply air motor Boot Software Ver [1/100]
Fan, Supply drive 2	Current value	Current value	Special	Current value	Special	EC2supMPCool	3x0181	xxx	NA	NA	0	1000	Only special customer code: OJ-EC-DV 2-supply/Supply air motor Boot Software Ver [1/100]
Fan, Supply drive 2	Current value	Current value	Special	Current value	Special	EC2supMRPmOut	3x0182	xxx	NA	NA	0	10000	Only special customer code: OJ-EC-DV 2-supply/Supply air motor actual RPM [RPM]
Fan, Supply drive 2	Current value	Current value	Special	Current value	Special	EC2supMPCool	3x0183	xxx	NA	NA	0	10000	Only special customer code: OJ-EC-DV 2-supply/Supply air motor actual RPM [RPM]
Fan, Supply drive 2	Current value	Current value	Special	Current value	Special	EC2supMPCool	3x0184	xxx	NA	NA	0	30000	Only special customer code: OJ-EC-DV 2-supply/Supply air motor actual current output [mA]
Fan, Supply drive 2	Current value	Current value	Special	Current value	Special	EC2supMPCool	3x0185	xxx	NA	NA	0	7000	Only special customer code: OJ-EC-DV 2-supply/Supply air motor actual power output [Watt]
Fan, Supply drive 2	Current value	Current value	Special	Current value	Special	EC2supDriftMin	3x0186	xxx	NA	NA	0	1440	Only special customer code: OJ-EC-DV 2-supply/Supply air motor actual running time [minutes]
Fan, Supply drive 2	Current value	Current value	Special	Current value	Special	EC2supDriftDay	3x0187	xxx	NA	NA	0	30000	Only special customer code: OJ-EC-DV 2-supply/Supply air motor actual running time [days]
Fan, Extract drive 2	Current value	Current value	Special	Current value	Special	EC2supMPCSet	3x0188	xxx	NA	NA	0	10000	Only special customer code: OJ-EC-DV 2-Extract/Exhaust air motor Type
Fan, Extract drive 2	Current value	Current value	Special	Current value	Special	EC2extMTCool	3x0189	xxx	NA	NA	0	256	Only special customer code: OJ-EC-DV 2-Extract/Exhaust air motor Type
Fan, Extract drive 2	Current value	Current value	Special	Current value	Special	EC2extMTEC_SW	3x0190	xxx	NA	NA	0	1000	Only special customer code: OJ-EC-DV 2-Extract/Exhaust air motor Boot Software Ver [1/100]
Fan, Extract drive 2	Current value	Current value	Special	Current value	Special	EC2extMPCool	3x0191	xxx	NA	NA	0	1000	Only special customer code: OJ-EC-DV 2-Extract/Exhaust air motor Boot Software Ver [1/100]
Fan, Extract drive 2	Current value	Current value	Special	Current value	Special	EC2extMRPmOut	3x0192	xxx	NA	NA	0	10000	Only special customer code: OJ-EC-DV 2-Extract/Exhaust air motor actual RPM [RPM]
Fan, Extract drive 2	Current value	Current value	Special	Current value	Special	EC2extMPCool	3x0193	xxx	NA	NA	0	10000	Only special customer code: OJ-EC-DV 2-Extract/Exhaust air motor actual RPM [RPM]
Fan, Extract drive 2	Current value	Current value	Special	Current value	Special	EC2extMPCool	3x0194	xxx	NA	NA	0	30000	Only special customer code: OJ-EC-DV 2-Extract/Exhaust air motor actual current output [mA]

Fan, Extract drive 2	Special	Current value	EC2xMtrPovOut	W	3x0195	xxx	NA	NA	0	7000	Only special customer code: QJ-EC-DV 2-Extract/Exhaust air motor actual power output [Watt]
Fan, Extract drive 2	Special	Current value	EC2xDriftMin	Min	3x0196	xxx	NA	NA	0	1440	Only special customer code: QJ-EC-DV 2-Extract/Exhaust air motor actual running time [minutes]
Fan, Extract drive 2	Special	Current value	EC2xMtrPrsSet	Day	3x0197	xxx	NA	NA	0	30000	Only special customer code: QJ-EC-DV 2-Extract/Exhaust air motor actual running time [days]
Fan, Supply drive	Standard	Setpoint	EC2xMtrPrsSet	Day	3x0198	xxx	NA	NA	0	10000	Only special customer code: QJ-EC-DV 2-Extract/Exhaust air motor setpoint [1/100%]
Fan, Supply drive	Standard	Current value	ECsupMtrType	%	3x0200	xxx	NA	NA	0	256	QJ-EC-DV-supply/Supply air motor Type
Fan, Supply drive	Standard	SW version	ECsupMtrFC_SW		3x0201	xxx	NA	NA	0	1000	QJ-EC-DV-supply/Supply air motor Software Ver [1/100]
Fan, Supply drive	Standard	Current value	ECsupMtrFC_SW	mA	3x0202	xxx	NA	NA	0	1000	QJ-EC-DV-supply/Supply air motor Boot Software Ver [1/100]
Fan, Supply drive	Standard	Current value	ECsupMtrPrsOut	%	3x0203	xxx	NA	NA	0	10000	QJ-EC-DV-supply/Supply air motor percent udgang [1/100%]
Fan, Supply drive	Standard	Current value	ECsupMtrPrsOut	RPM	3x0204	xxx	NA	NA	0	10000	QJ-EC-DV-supply/Supply air motor actual RPM [RPM]
Fan, Supply drive	Standard	Current value	ECsupMtrPrsOut	W	3x0205	xxx	NA	NA	0	30000	QJ-EC-DV-supply/Supply air motor actual power output [1/100mA]
Fan, Supply drive	Standard	Current value	ECsupMtrPovOut	W	3x0206	xxx	NA	NA	0	1440	QJ-EC-DV-supply/Supply air motor actual power output [Watt]
Fan, Supply drive	Standard	Current value	ECsupMtrPovOut	Min	3x0207	xxx	NA	NA	0	7000	QJ-EC-DV-supply/Supply air motor actual running time [minutes]
Fan, Supply drive	Standard	Current value	ECsupMtrPrsSet	Day	3x0208	xxx	NA	NA	0	30000	QJ-EC-DV-supply/Supply air motor actual running time [days]
Fan, Supply drive	Standard	Setpoint	ECsupMtrPrsSet	%	3x0209	xxx	NA	NA	0	10000	QJ-EC-DV-supply/Supply air motor setpoint [1/100%]
Fan, Supply drive	Standard	SW version	ECsupMtrFC_SW		3x0210	xxx	NA	NA	0	1000	QJ-EC-DV-Extract/Exhaust air motor Boot Software Ver [1/100]
Fan, Supply drive	Standard	Current value	ECsupMtrPrsOut	%	3x0211	xxx	NA	NA	0	10000	QJ-EC-DV-Extract/Exhaust air motor percent udgang [1/100%]
Fan, Supply drive	Standard	Current value	ECsupMtrPrsOut	RPM	3x0212	xxx	NA	NA	0	10000	QJ-EC-DV-Extract/Exhaust air motor actual RPM [RPM]
Fan, Supply drive	Standard	Current value	ECsupMtrPovOut	mA	3x0213	xxx	NA	NA	0	30000	QJ-EC-DV-Extract/Exhaust air motor actual current output [1/100mA]
Fan, Supply drive	Standard	Current value	ECsupMtrPovOut	W	3x0214	xxx	NA	NA	0	7000	QJ-EC-DV-Extract/Exhaust air motor actual power output [Watt]
Fan, Supply drive	Standard	Current value	ECsupMtrPrsOut	Min	3x0215	xxx	NA	NA	0	1440	QJ-EC-DV-Extract/Exhaust air motor actual running time [minutes]
Fan, Supply drive	Standard	Current value	ECsupMtrPrsOut	Day	3x0216	xxx	NA	NA	0	30000	QJ-EC-DV-Extract/Exhaust air motor actual running time [days]
Fan, Supply drive	Standard	Current value	ECsupMtrPrsSet	%	3x0217	xxx	NA	NA	0	10000	QJ-EC-DV-Extract/Exhaust air motor setpoint [1/100%]
Fan, Supply drive	Standard	SW version	ECsupMtrFC_SW		3x0218	xxx	NA	NA	0	256	QJ-EC-DV-Extract/Exhaust air motor Type
Fan, Supply drive	Standard	Current value	ECsupMtrFC_SW	%	3x0219	xxx	NA	NA	0	1000	QJ-EC-DV-Extract/Exhaust air motor Software Ver [1/100]
Temp. out floor	Standard	Current value	SupplyTemp2	°C	3x0220	xxx	NA	NA	0	4000	Only special customer code: Actual supply supply temperature2 [1/100°C]
Preheater coil	Standard	Current value	EXOutDTemp	°C	3x0221	xxx	AI18	NA	-5000	5000	External outdoor temperature sensor [1/100°C]
Preheater coil	Standard	Current value	PHeatTempAir	°C	3x0222	xxx	AI19	xxx	xxx	4000	Temperature after pre-heating coil [1/100 °C]
Damper, Recirculation	Standard	Status	CW_supplyTemp	°C	3x0223	xxx	AI20	xxx	-4000	4000	Cold water supply temperature for cooling coil [1/100 °C]
Damper, Recirculation	Standard	Status	RecFreshAirDis	%	3x0224	xxx	AI21	xxx	0	10000	Damper position recirculation [1/100 %]
Cooling coil	Standard	Status	CoolVDC_Out2	V	3x0225	xxx	AI22	xxx	0	10000	Output voltage cooling valve2 (only combi coil) [1/1000 V]
Fan, ATV drive	Special	Current value	AtvExpPower	kW	3x0226	xxx	AI23	xxx	0	30000	ATV extract air actual power [1/100 kW]
Fan, ATV drive	Standard	Current value	AtvSupPower	kW	3x0227	xxx	AI16	xxx	0	30000	ATV supply air actual power [1/100 kW]
Filter	Standard	Status	OutFIResDay	Day	3x0228	xxx	AI17	xxx	0	30000	Days until timer alarm from the extract filter
Filter	Standard	Status	ExFIResDay	Day	3x0230	xxx	AI24	xxx	0	366	Days until timer alarm from the outdoor filter
Humidity	Standard	Current value	CombiBatTemp	°C	3x0231	xxx	AI25	xxx	0	366	combi coil - Actual return temperature [1/100°C]
Humidity	Standard	Current value	RelHumMixed	%	3x0232	xxx	AI26	xxx	0	4000	Actual relative humidity in mixed air [1/100%rh]
Filter	Standard	Status	SupFIzRestDay	Day	3x0233	418	NA	NA	0	10000	Supply filter 2: Restime before change filter alarm will be activated
Filter	Standard	Status	ExFIzResDay	Day	3x0234	418	NA	NA	0	366	Extract filter 2: Restime before change filter alarm will be activated
Zone	Standard	Status	ZM_Count		3x0235	419	AI32	NA	0	4	Number of Detected ZoneModules
Zone	Standard	Status	ZM_OpMode		3x0236	419	AI33	NA	0	7	ZoneControl Operation Mode
Zone 1	Standard	Status	ZM1_Status		3x0237	419	AI34	419	0	4	ZoneModule 1 - Status: 0=No active alarm; 1=A-alarm active; 2=B-alarm active
Zone 1	Standard	Status	ZM1_Sup1Set		3x0238	419	AI35	419	0	2	ZoneModule 1 - VAV Supply 1 Actuator Setpoint [scale depending on the connected actuator]
Zone 1	Standard	Status	ZM1_Sup1Flow		3x0239	419	AI36	419	0	0	ZoneModule 1 - VAV Supply 1 Actuator Flow [scale depending on the connected actuator]
Zone 1	Standard	Status	ZM1_Sup2Set		3x0240	419	AI37	419	0	0	ZoneModule 1 - VAV Supply 2 Actuator Setpoint [scale depending on the connected actuator]
Zone 1	Standard	Status	ZM1_Sup2Flow		3x0241	419	AI38	419	0	0	ZoneModule 1 - VAV Supply 2 Actuator Flow [scale depending on the connected actuator]
Zone 1	Standard	Status	ZM1_Ex1Set		3x0242	419	AI39	419	0	0	ZoneModule 1 - VAV Extract Actuator Setpoint [scale depending on the connected actuator]
Zone 1	Standard	Status	ZM1_Ex1Flow		3x0243	419	AI40	419	0	0	ZoneModule 1 - VAV Extract Actuator Flow [scale depending on the connected actuator]
Zone 1	Standard	Status	ZM1_HeadSet		3x0244	419	AI41	419	0	0	ZoneModule 1 - VAV Heating Actuator Setpoint [scale depending on the connected actuator]
Zone 1	Standard	Status	ZM1_HeadFlow		3x0245	419	AI42	419	0	0	ZoneModule 1 - VAV Heating Actuator Flow [scale depending on the connected actuator]
Zone 1	Standard	Status	ZM1_CoolSet		3x0246	419	AI43	419	0	0	ZoneModule 1 - VAV Cooling Actuator Setpoint [scale depending on the connected actuator]
Zone 1	Standard	Status	ZM1_CoolFlow		3x0247	419	AI44	419	0	0	ZoneModule 1 - VAV Cooling Actuator Flow [scale depending on the connected actuator]
Zone 1	Standard	Status	ZM1_RoomTemp		3x0248	419	AI45	419	-4000	10000	ZoneModule 1 - Room Temperature Value [1/100°C]
Zone 1	Standard	Status	ZM1_SetTemp		3x0249	419	AI46	419	-4000	10000	ZoneModule 1 - Room Temperature Value [1/100°C]
Zone 1	Standard	Status	ZM1_SetOffset		3x0250	419	AI47	419	-4000	10000	ZoneModule 1 - Remote Setpoint Value [1/100°C]
Zone 1	Standard	Status	ZM1_CO2VOC		3x0251	419	AI48	419	0	5000	ZoneModule 1 - CO2/VOC Value [ppm]
Zone 1	Standard	Status	ZM1_RH		3x0252	419	AI49	419	0	10000	ZoneModule 1 - RH Value [1/100%rh]
Zone 2	Standard	Status	ZM2_Status		3x0253	419	AI50	419	0	2	ZoneModule 2 - Status: 0=No active alarm; 1=A-alarm active; 2=B-alarm active
Zone 2	Standard	Status	ZM2_Sup1Set		3x0254	419	AI51	419	0	0	ZoneModule 2 - VAV Supply 1 Actuator Setpoint [scale depending on the connected actuator]
Zone 2	Standard	Status	ZM2_Sup1Flow		3x0255	419	AI52	419	0	0	ZoneModule 2 - VAV Supply 1 Actuator Flow [scale depending on the connected actuator]
Zone 2	Standard	Status	ZM2_Sup2Set		3x0256	419	AI53	419	0	0	ZoneModule 2 - VAV Supply 2 Actuator Setpoint [scale depending on the connected actuator]
Zone 2	Standard	Status	ZM2_Sup2Flow		3x0257	419	AI54	419	0	0	ZoneModule 2 - VAV Supply 2 Actuator Flow [scale depending on the connected actuator]
Zone 2	Standard	Status	ZM2_Ex1Set		3x0258	419	AI55	419	0	0	ZoneModule 2 - VAV Extract Actuator Setpoint [scale depending on the connected actuator]
Zone 2	Standard	Status	ZM2_Ex1Flow		3x0259	419	AI56	419	0	0	ZoneModule 2 - VAV Extract Actuator Flow [scale depending on the connected actuator]
Zone 2	Standard	Status	ZM2_HeadFlow		3x0260	419	AI57	419	0	0	ZoneModule 2 - VAV Heating Actuator Flow [scale depending on the connected actuator]
Zone 2	Standard	Status	ZM2_CoolSet		3x0261	419	AI58	419	0	0	ZoneModule 2 - VAV Heating Actuator Setpoint [scale depending on the connected actuator]
Zone 2	Standard	Status	ZM2_CoolFlow		3x0262	419	AI59	419	0	0	ZoneModule 2 - VAV Heating Actuator Flow [scale depending on the connected actuator]
Zone 2	Standard	Status	ZM2_RoomTemp		3x0263	419	AI60	419	0	0	ZoneModule 2 - VAV Cooling Actuator Setpoint [scale depending on the connected actuator]
Zone 2	Standard	Status	ZM2_RoomTemp		3x0264	419	AI61	419	-4000	10000	ZoneModule 2 - Room Temperature Value [1/100°C]
Zone 2	Standard	Status	ZM2_SupTemp		3x0265	419	AI62	419	-4000	10000	ZoneModule 2 - Supply Temperature Value [1/100°C]
Zone 2	Standard	Status	ZM2_SetOffset		3x0266	419	AI63	419	-4000	10000	ZoneModule 2 - Remote Setpoint Offset [1/100°C]
Zone 2	Standard	Status	ZM2_CO2VOC		3x0267	419	AI64	419	0	5000	ZoneModule 2 - CO2/VOC Value [ppm]
Zone 2	Standard	Status	ZM2_RH		3x0268	419	AI65	419	0	10000	ZoneModule 2 - RH Value [1/100%rh]
Zone 3	Standard	Status	ZM3_Status		3x0269	419	AI66	419	0	2	ZoneModule 3 - Status: 0=No active alarm; 1=A-alarm active; 2=B-alarm active
Zone 3	Standard	Status	ZM3_Sup1Set		3x0270	419	AI67	419	0	0	ZoneModule 3 - VAV Supply 1 Actuator Setpoint [scale depending on the connected actuator]

Zone	Status	Standard	Zone 3	3x0271	4.19	AI168	4.19	0	0	ZoneModule 3 - VAV Supply 1 Actuator Flow [scale depending on the connected actuator]
Zone 3	Status	Standard	ZM3_Sup1Flow	3x0271	4.19	AI168	4.19	0	0	ZoneModule 3 - VAV Supply 1 Actuator Flow [scale depending on the connected actuator]
Zone 3	Status	Standard	ZM3_Sup2Set	3x0272	4.19	AI169	4.19	0	0	ZoneModule 3 - VAV Supply 2 Actuator Setpoint [scale depending on the connected actuator]
Zone 3	Status	Standard	ZM3_Sup2Flow	3x0273	4.19	AI170	4.19	0	0	ZoneModule 3 - VAV Supply 2 Actuator Flow [scale depending on the connected actuator]
Zone 3	Status	Standard	ZM3_ExkSet	3x0274	4.19	AI171	4.19	0	0	ZoneModule 3 - VAV Extract Actuator Setpoint [scale depending on the connected actuator]
Zone 3	Status	Standard	ZM3_ExkFlow	3x0275	4.19	AI172	4.19	0	0	ZoneModule 3 - VAV Extract Actuator Flow [scale depending on the connected actuator]
Zone 3	Status	Standard	ZM3_HeatSet	3x0276	4.19	AI173	4.19	0	0	ZoneModule 3 - VAV Heating Actuator Setpoint [scale depending on the connected actuator]
Zone 3	Status	Standard	ZM3_HeatFlow	3x0277	4.19	AI174	4.19	0	0	ZoneModule 3 - VAV Heating Actuator Flow [scale depending on the connected actuator]
Zone 3	Status	Standard	ZM3_CoolSet	3x0278	4.19	AI175	4.19	0	0	ZoneModule 3 - VAV Cooling Actuator Setpoint [scale depending on the connected actuator]
Zone 3	Status	Standard	ZM3_CoolFlow	3x0279	4.19	AI176	4.19	0	0	ZoneModule 3 - VAV Cooling Actuator Flow [scale depending on the connected actuator]
Zone 3	Status	Standard	ZM3_RoomTemp	3x0280	4.19	AI177	4.19	-4000	10000	ZoneModule 3 - Room Temperature Value [1/100°C]
Zone 3	Status	Standard	ZM3_SetOffset	3x0281	4.19	AI178	4.19	-4000	10000	ZoneModule 3 - Remote Setpoint Offset [1/100°C]
Zone 3	Status	Standard	ZM3_RH	3x0282	4.19	AI180	4.19	0	5000	ZoneModule 3 - RH Value [1/100%rh]
Zone 3	Status	Standard	ZM3_CO2VOC	3x0284	4.19	AI181	4.19	0	10000	ZoneModule 3 - CO2/VOC Value [ppm]
Zone 4	Status	Standard	ZM4_Status	3x0285	4.19	AI182	4.19	0	2	ZoneModule 4 - Status: 0=No active alarm; 1=A-alarm active; 2=B-alarm active
Zone 4	Status	Standard	ZM4_Sup1Flow	3x0286	4.19	AI183	4.19	0	0	ZoneModule 4 - VAV Supply 1 Actuator Flow [scale depending on the connected actuator]
Zone 4	Status	Standard	ZM4_Sup2Flow	3x0287	4.19	AI184	4.19	0	0	ZoneModule 4 - VAV Supply 2 Actuator Flow [scale depending on the connected actuator]
Zone 4	Status	Standard	ZM4_Sup2Set	3x0288	4.19	AI185	4.19	0	0	ZoneModule 4 - VAV Supply 2 Actuator Setpoint [scale depending on the connected actuator]
Zone 4	Status	Standard	ZM4_ExkSet	3x0289	4.19	AI186	4.19	0	0	ZoneModule 4 - VAV Extract Actuator Setpoint [scale depending on the connected actuator]
Zone 4	Status	Standard	ZM4_ExkFlow	3x0290	4.19	AI187	4.19	0	0	ZoneModule 4 - VAV Extract Actuator Flow [scale depending on the connected actuator]
Zone 4	Status	Standard	ZM4_HeadSet	3x0291	4.19	AI188	4.19	0	0	ZoneModule 4 - VAV Heating Actuator Setpoint [scale depending on the connected actuator]
Zone 4	Status	Standard	ZM4_HeadFlow	3x0292	4.19	AI189	4.19	0	0	ZoneModule 4 - VAV Heating Actuator Flow [scale depending on the connected actuator]
Zone 4	Status	Standard	ZM4_CoolFlow	3x0293	4.19	AI190	4.19	0	0	ZoneModule 4 - VAV Cooling Actuator Flow [scale depending on the connected actuator]
Zone 4	Status	Standard	ZM4_RoomTemp	3x0294	4.19	AI191	4.19	0	0	ZoneModule 4 - Room Temperature Value [1/100°C]
Zone 4	Status	Standard	ZM4_SetOffset	3x0296	4.19	AI193	4.19	-4000	10000	ZoneModule 4 - Remote Setpoint Offset [1/100°C]
Zone 4	Status	Standard	ZM4_CO2VOC	3x0298	4.19	AI194	4.19	-4000	10000	ZoneModule 4 - Supply Temperature Value [1/100°C]
Zone 4	Status	Standard	ZM4_RH	3x0299	4.19	AI196	4.19	0	5000	ZoneModule 4 - RH Value [1/100%rh]
CVM Meter	Status	Standard	CVMVoltageL1	3x0300	4.19	AI197	4.19	0	10000	ZoneModule 4 - CVM Voltage L1 to L2 [V]
CVM Meter	Status	Standard	CVMCurrentL1	3x0301	4.21	AI198	4.21	0	5200	CVM Phase L1 to neutral (N) voltage [V]
CVM Meter	Status	Standard	CVMActPowerL1	3x0302	4.21	AI199	4.21	0	6000	CVM Current L1 value [A]
CVM Meter	Status	Standard	CVMVoltageL2	3x0303	4.21	AI200	4.21	0	65535	CVM Active power [kW]
CVM Meter	Status	Standard	CVMCurrentL2	3x0304	4.21	AI201	4.21	0	5200	CVM Phase L2 to neutral (N) voltage [V]
CVM Meter	Status	Standard	CVMActPowerL2	3x0305	4.21	AI202	4.21	0	6000	CVM Current L2 value [A]
CVM Meter	Status	Standard	CVMVoltageL3	3x0306	4.21	AI203	4.21	0	65535	CVM Active power [kW]
CVM Meter	Status	Standard	CVMCurrentL3	3x0307	4.21	AI204	4.21	0	5200	CVM Phase L3 to neutral (N) voltage [V]
CVM Meter	Status	Standard	CVMActPowerL3	3x0308	4.21	AI205	4.21	0	6000	CVM Current L3 value [A]
CVM Meter	Status	Standard	CVMFrequency	3x0309	4.21	AI206	4.21	0	65535	CVM Active power [kW]
CVM Meter	Status	Standard	CVMVoltageL1L2	3x0310	4.21	AI207	4.21	0	65535	CVM Active power three phases [kW]
CVM Meter	Status	Standard	CVMVoltageL1L3	3x0311	4.21	AI208	4.21	0	600	CVM Frequency value [Hz]
CVM Meter	Status	Standard	CVMVoltageL2L3	3x0312	4.21	AI209	4.21	0	5200	CVM Phase-phase Voltage L1 to L2 [V]
CVM Meter	Status	Standard	CVMActEnergyL1	3x0313	4.21	AI210	4.21	0	5200	CVM Phase-phase Voltage L2 to L3 [V]
CVM Meter	Status	Standard	CVMActEnergyL2	3x0314	4.21	AI211	4.21	0	5200	CVM Phase-phase Voltage L3 to L1 [V]
CVM Meter	Status	Standard	CVMActEnergyL3	3x0315	4.26	AI212	4.26	0	65535	CVM Active energy three phases [kWh]
CVM Meter	Status	Standard	CCVMCurrentL1	3x0330	4.21	AI213	4.21	0	5200	CVM Cool Phase L1 to neutral (N) voltage [V]
CVM Meter	Status	Standard	CCVMCurrentL2	3x0331	4.21	AI214	4.21	0	6000	CVM Cool Current L1 value [A]
CVM Meter	Status	Standard	CCVMCurrentL3	3x0332	4.21	AI215	4.21	0	65535	CVM Cool Active power [kW]
CVM Meter	Status	Standard	CCVMVoltageL2	3x0333	4.21	AI216	4.21	0	5200	CVM Cool Phase L2 to neutral (N) voltage [V]
CVM Meter	Status	Standard	CCVMActPowerL2	3x0334	4.21	AI217	4.21	0	6000	CVM Cool Current L2 value [A]
CVM Meter	Status	Standard	CCVMVoltageL3	3x0335	4.21	AI218	4.21	0	65535	CVM Cool Active power [kW]
CVM Meter	Status	Standard	CCVMActPowerL3	3x0336	4.21	AI219	4.21	0	5200	CVM Cool Phase L3 to neutral (N) voltage [V]
CVM Meter	Status	Standard	CCVMCurrentL1L2	3x0337	4.21	AI220	4.21	0	6000	CVM Cool Current L3 value [A]
CVM Meter	Status	Standard	CCVMCurrentL1L3	3x0338	4.21	AI221	4.21	0	65535	CVM Cool Active power [kW]
CVM Meter	Status	Standard	CCVMCurrentL2L3	3x0339	4.21	AI222	4.21	0	65535	CVM Cool Active power three phases [kW]
CVM Meter	Status	Standard	CCVMFrequency	3x0340	4.21	AI223	4.21	0	600	CVM Cool Frequency value [Hz]
CVM Meter	Status	Standard	CCVMVoltageL1L2	3x0341	4.21	AI224	4.21	0	5200	CVM Cool Phase-phase Voltage L1 to L2 [V]
CVM Meter	Status	Standard	CCVMVoltageL1L3	3x0342	4.21	AI225	4.21	0	5200	CVM Cool Phase-phase Voltage L2 to L3 [V]
CVM Meter	Status	Standard	CCVMVoltageL2L3	3x0343	4.21	AI226	4.21	0	5200	CVM Cool Phase-phase Voltage L3 to L1 [V]
CVM Meter	Status	Special	ElBatActPow	NA	NA	AI227	4.26	0	65535	CVM Cool Active energy three phases [kWh]
CVM Meter	Status	Special	ElBatActPow	NA	NA	AI228	4.21	0	30000	Actual power (kW) electrical battery 1
CVM Meter	Status	Special	ElBatActPow	NA	NA	AI229	4.21	0	30000	Actual power (kW) electrical battery 2
CVM Meter	Status	Special	ElBatActPow	NA	NA	AI229	4.21	0	30000	Actual power (kW) Supply fan
CVM Meter	Status	Special	ElBatActPow	NA	NA	AI229	4.21	0	30000	Actual power (kW) Extract fan
1. Info	1. Info	1. Info	1. Info	1. Info	1. Info	1. Info	1. Info	1. Info	1. Info	1. Info
AHU controller	Set point	ManDriftMode	4x0001	x.xx	AV0	x.xx	x.xx	0	7	0=Auto 1=Manual stop 2=Manual low 3=Manual high 6=Manual medium 7=Calendar



Device	Parameter	Unit	Value	Min	Max	Default	Scale	Resolution	Control Type	Notes
AHU controller	Set point	MirRegMode	4x0002	x.xx	AV1	x.xx				0=pressure 1=flow 2=extract slave 3=supply slave 4=external VDC setpoint 5=fan optimizer with extract slave 6=fan optimizer with extract slave 7=Green Zone 8=Green Zone slave 9=Constant speed
	Set point	SupDuctPaLoSet	4x0003	x.xx	AV2	x.xx				50 Setpoint for duct pressure, low supply [Pa]
Pressure	Set point	SupDuctPaHiSet	4x0004	x.xx	AV3	x.xx				200 Setpoint for high duct pressure, extract [Pa]
	Set point	SupDuctMinFlow	4x0005	x.xx	AV4	x.xx				1500 Min. supply duct flow [l/s] or [m3/h] or [CFM] (Depending on the unit selection in the OJ-Air2Master)
Fan	Set point	SupDuctMaxFlow	4x0006	x.xx	AV5	x.xx				10000 Max. supply duct flow P322
	Set point	ExtDuctPaLoSet	4x0007	x.xx	AV6	x.xx				50 Setpoint for low duct pressure, extract [Pa]
Pressure	Set point	ExtDuctPaHiSet	4x0008	x.xx	AV7	x.xx				200 Setpoint for high duct pressure, extract [Pa]
	Set point	ExtDuctMinFlow	4x0009	x.xx	AV8	x.xx				1500 Min. extract duct flow [l/s] or [m3/h] or [CFM] (Depending on the unit selection in the OJ-Air2Master)
Fan	Set point	ExtDuctMaxFlow	4x0010	x.xx	AV9	x.xx				10000 Max. extract duct flow [l/s] or [m3/h] or [CFM] (Depending on the unit selection in the OJ-Air2Master)
	Set point	SupLoSpeedSet	4x0011	x.xx	AV10	x.xx				3000 Setpoint for supply flow, low speed [l/s] or [m3/h] or [CFM] (Depending on the unit selection in the OJ-Air2Master)
Fan	Set point	SupHiSpeedSet	4x0012	x.xx	AV11	x.xx				7000 Setpoint for supply flow, high speed [l/s] or [m3/h] or [CFM] (Depending on the unit selection in the OJ-Air2Master)
	Set point	ExtLoSpeedSet	4x0014	x.xx	AV12	x.xx				3000 Setpoint for extract flow, low speed [l/s] or [m3/h] or [CFM] (Depending on the unit selection in the OJ-Air2Master)
Fan	Set point	ExtHiSpeedSet	4x0015	x.xx	AV13	x.xx				7000 Setpoint for extract flow, high speed [l/s] or [m3/h] or [CFM] (Depending on the unit selection in the OJ-Air2Master)
	Set point	MirRegOffset	4x0017	x.xx	AV14	x.xx				0 Supply/extract motor offset, slave and CO2 control [1/100%]
Fan	Set point	MirRegOffset	NA	NA	AV15	x.xx				0 Supply/extract motor offset, slave and CO2 control [1/100%]
	Set point	MirRegOffset	NA	NA	AV16	x.xx				0 Supply/extract motor offset, slave and CO2 control [1/100%]
CO2 sensor	Set point	CO2_UseSetLP	4x0020	x.xx	AV17	x.xx				1000 CO2 control: setpoint for low period (high CO2 value) [ppm]
	Set point	CO2_UseSetHP	4x0021	x.xx	AV18	x.xx				1000 CO2 control: setpoint for high period (high CO2 value) [ppm]
CO2 sensor	Set point	CO2_MinFlow	4x0022	x.xx	AV19	x.xx				3000 CO2 control: min. flow [l/s] or [m3/h] or [CFM] (Depending on the unit selection in the OJ-Air2Master)
	Set point	CO2_MaxFlow	4x0023	x.xx	AV20	x.xx				7000 CO2 control: max. flow [l/s] or [m3/h] or [CFM] (Depending on the unit selection in the OJ-Air2Master)
CO2 sensor	Set point	CO2_SupFlwOffs	4x0024	x.xx	AV21	x.xx				0 CO2 control: supply flow offset [1/100%]
	Alarm	CO2_AirLimit	4x0025	x.xx	AV22	x.xx				2000 CO2 concentration alarm limit setpoint [ppm]
CO2 sensor	Control	CO2_PB	4x0026	x.xx	AV23	x.xx				500 CO2 control: P-band [ppm]
	Control	CO2_I_Time	4x0027	x.xx	AV24	x.xx				700 CO2 control: I-time [sec]
Fan optimizer	Set point	FAN_SupMinFlow	4x0028	x.xx	AV25	x.xx				2000 Fan optimizer supply control: min. flow [l/s] or [m3/h] or [CFM] (Depending on the unit selection in the OJ-Air2Master)
	Set point	FAN_SupMaxFlow	4x0029	x.xx	AV26	x.xx				10000 Fan optimizer extract control: min. flow [l/s] or [m3/h] or [CFM] (Depending on the unit selection in the OJ-Air2Master)
Fan optimizer	Set point	FAN_ExtMinFlow	4x0030	x.xx	AV27	x.xx				2000 Fan optimizer supply control: max. flow [l/s] or [m3/h] or [CFM] (Depending on the unit selection in the OJ-Air2Master)
	Set point	FAN_ExtMaxFlow	4x0031	x.xx	AV28	x.xx				10000 Fan optimizer extract control: max. flow [l/s] or [m3/h] or [CFM] (Depending on the unit selection in the OJ-Air2Master)
Fan optimizer	Set point	FAN_ExtFlwOffs	4x0032	x.xx	AV29	x.xx				0 Fan optimizer extract control: flow offset [1/100%]
	Control	SupMir_I_Time	4x0033	x.xx	AV30	x.xx				50 Supply motor control: I-time setpoint [sec]
Fan	Control	ExtMir_I_Time	4x0034	x.xx	AV31	x.xx				50 Extract motor control: I-time setpoint [sec]
	Control	SupFlowFireSet	4x0035	x.xx	AV32	x.xx				8000 Supply motor speed setpoint in case of fire alarm [%]
Fan	Control	ExtFlowFireSet	4x0036	x.xx	AV33	x.xx				8000 Extract motor speed setpoint in case of fire alarm [%]
	Control	HS_AfterRunSet	4x0037	x.xx	AV34	x.xx				0 Run-on time, high speed [min]
Fan	Set point	FlwTmpCmpSet	4x0040	x.xx	AV35	x.xx				2500 Reduction of flow / percentage of setpoint [1/100%]
	Set point	FlwTmpCmpStart	4x0041	x.xx	AV36	x.xx				500 Reduction of flow / start temp. setpoint [1/100°C]
Fan	Set point	FlwTmpCmpStop	4x0042	x.xx	AV37	x.xx				-2000 Reduction of flow / stop temp. setpoint [1/100°C]
	Set point	DXOutTempMin1	4x0043	x.xx	AV211	x.xx				1600 Min. outdoor temperature for activating DX relay no. 1
Cooling, DX	Set point	DXOutTempMin2	4x0044	x.xx	AV212	x.xx				1600 Min. outdoor temperature for activating DX relay no. 2
	Set point	DXOutTempMin3	4x0045	x.xx	AV213	x.xx				1600 Min. outdoor temperature for activating DX relay no. 3
Cooling, DX	Set point	DXOutTempMin4	4x0046	x.xx	AV214	x.xx				1600 Min. outdoor temperature for activating DX relay no. 4
	Set point	TimeSw-Year	4x0050	x.xx	AV38	x.xx				Actual year
AHU controller	Time	TimeSw-Month	4x0051	x.xx	AV39	x.xx				Actual month
	Time	TimeSw-Date	4x0052	x.xx	AV40	x.xx				Actual date
AHU controller	Time	TimeSw-Hour	4x0053	x.xx	AV41	x.xx				Actual hour
	Time	TimeSw-Minute	4x0054	x.xx	AV42	x.xx				Actual minutes
AHU controller	Control	ExtDriftStartDay	4x0056	x.xx	AV43	x.xx				0 Extended operation start - day (0=Mon, 6=Sun)
	Control	ExtDriftStartMin	4x0057	x.xx	AV44	x.xx				0 Extended operation stop - time (hours times 60 plus minutes)
AHU controller	Control	ExtDriftStopDay	4x0058	x.xx	AV45	x.xx				0 Extended operation stop - day (0=Mon, 6=Sun)
	Control	ExtDriftStopMin	4x0059	x.xx	AV46	x.xx				0 Extended operation stop - time (hours times 60 plus minutes)
AHU controller	Control	TimeSw-DayMode	4x0060	x.xx	AV47	x.xx				0 Timer program type (0,2)=Mon..Sun, 1=Mon..Fri-weekend, 2=all week
	Control	TimeSw-DayMode	4x0060	x.xx	AV48	x.xx				



AHU controller	Week Schedule	Standard	TimeSw-Mode09	4x0126	x.xx	AV114	x.xx	0	6	1 Wednesday: Second period operating mode: 0=OFF, 1=low speed, 2=high speed
AHU controller	Week Schedule	Standard	TimeSw-Mode10	4x0127	x.xx	AV115	x.xx	0	6	1 Thursday: Second period operating mode: 0=OFF, 1=low speed, 2=high speed
AHU controller	Week Schedule	Standard	TimeSw-Mode11	4x0128	x.xx	AV116	x.xx	0	6	0 Friday: Second period operating mode: 0=OFF, 1=low speed, 2=high speed
AHU controller	Week Schedule	Standard	TimeSw-Mode12	4x0129	x.xx	AV117	x.xx	0	6	2 Saturday: Second period operating mode: 0=OFF, 1=low speed, 2=high speed
AHU controller	Week Schedule	Standard	TimeSw-Mode13	4x0130	x.xx	AV118	x.xx	0	6	1 Sunday: Second period operating mode: 0=OFF, 1=low speed, 2=high speed
AHU controller	Week Schedule	Standard	TimeSw-Mode14	4x0131	x.xx	AV119	x.xx	0	6	1 Monday: Third period operating mode: 0=OFF, 1=low speed, 2=high speed
AHU controller	Week Schedule	Standard	TimeSw-Mode15	4x0132	x.xx	AV120	x.xx	0	6	0 Tuesday: Third period operating mode: 0=OFF, 1=low speed, 2=high speed
AHU controller	Week Schedule	Standard	TimeSw-Mode16	4x0133	x.xx	AV121	x.xx	0	6	2 Wednesday: Third period operating mode: 0=OFF, 1=low speed, 2=high speed
AHU controller	Week Schedule	Standard	TimeSw-Mode17	4x0134	x.xx	AV122	x.xx	0	6	1 Thursday: Third period operating mode: 0=OFF, 1=low speed, 2=high speed
AHU controller	Week Schedule	Standard	TimeSw-Mode18	4x0135	x.xx	AV123	x.xx	0	6	1 Friday: Third period operating mode: 0=OFF, 1=low speed, 2=high speed
AHU controller	Week Schedule	Standard	TimeSw-Mode19	4x0136	x.xx	AV124	x.xx	0	6	0 Saturday: Third period operating mode: 0=OFF, 1=low speed, 2=high speed
AHU controller	Week Schedule	Standard	TimeSw-Mode20	4x0137	x.xx	AV125	x.xx	0	6	2 Sunday: Third period operating mode: 0=OFF, 1=low speed, 2=high speed
AHU controller	Week Schedule	Standard	TimeSw-Mode21	4x0138	x.xx	AV126	x.xx	0	6	1 Monday: Fourth period operating mode: 0=OFF, 1=low speed, 2=high speed
AHU controller	Week Schedule	Standard	TimeSw-Mode22	4x0139	x.xx	AV127	x.xx	0	6	1 Tuesday: Fourth period operating mode: 0=OFF, 1=low speed, 2=high speed
AHU controller	Week Schedule	Standard	TimeSw-Mode23	4x0140	x.xx	AV128	x.xx	0	6	0 Wednesday: Fourth period operating mode: 0=OFF, 1=low speed, 2=high speed
AHU controller	Week Schedule	Standard	TimeSw-Mode24	4x0141	x.xx	AV129	x.xx	0	6	2 Thursday: Fourth period operating mode: 0=OFF, 1=low speed, 2=high speed
AHU controller	Week Schedule	Standard	TimeSw-Mode25	4x0142	x.xx	AV130	x.xx	0	6	1 Friday: Fourth period operating mode: 0=OFF, 1=low speed, 2=high speed
AHU controller	Week Schedule	Standard	TimeSw-Mode26	4x0143	x.xx	AV131	x.xx	0	6	1 Saturday: Fourth period operating mode: 0=OFF, 1=low speed, 2=high speed
AHU controller	Week Schedule	Standard	TimeSw-Mode27	4x0144	x.xx	AV132	x.xx	0	6	0 Sunday: Fourth period operating mode: 0=OFF, 1=low speed, 2=high speed
AHU controller	Control	Standard	TempRegMode	4x0148	x.xx	AV133	x.xx	0	3	0 0=supply, 1=Extract, 2=Room, 3=supply/extract differential
AHU controller	Set point	Standard	TempRegSet	4x0149	x.xx	AV134	x.xx	0	4000	Temperature setpoint for actual control type [1/100°C]
AHU controller	Set point	Standard	SupTempMinSet	4x0150	x.xx	AV135	x.xx	0	4000	1000 Min. limit supply temperature [1/100°C]
AHU controller	Set point	Standard	SupTempMaxSet	4x0151	x.xx	AV136	x.xx	2000	5000	3500 Max. limit supply temperature [1/100°C]
AHU controller	Set point	Standard	SupTempDiffSet	4x0152	x.xx	AV137	x.xx	100	1500	300 Only relevant when TempRegMode is 3 (supply/extract differential) (constant supply/extract - differential temperature control) [1/100°C]
AHU controller	Alarm	Standard	SupTempDiffAir	4x0156	x.xx	AV138	x.xx	200	1500	500 Alarm limit for temperature differential between supply setpoint and actual value [1/100°C]
Heating coil	Control	Standard	SupTempHeatPB	4x0157	x.xx	AV139	x.xx	200	10000	750 P-band for supply air temperature control [1/100°C]
Cooling coil	Control	Standard	SupTempCool_IT	4x0158	x.xx	AV140	x.xx	10	30000	700 H-time for supply air temperature control [sec]
Heat exchanger	Control	Standard	SupTempEXC_IT	4x0159	x.xx	AV141	x.xx	10	30000	120 H-time for supply heat exchanger control [sec]
Heating Fan	Control	Standard	SupTempHeat_IT	4x0160	x.xx	AV142	x.xx	10	30000	300 H-time for supply heating control [sec]
Heater 2	Control	Standard	SupTempDnRegIt	4x0161	x.xx	AV143	x.xx	10	30000	120 H-time for supply flow reduction in case of low supply temperature [sec]
Heat pump	Control	Standard	SupTempHeat2IT	4x0162	x.xx	NA	NA	10	30000	300 H-time for supply heating2 control [sec]
Heat pump	Control	Special	SupTempHP_IT	4x0164	x.xx	NA	NA	10	30000	300 H-time for heat pump[sec]
Heating	Alarm	Standard	ExTTempDiffAir	4x0165	x.xx	AV144	x.xx	200	1500	500 Alarm limit for temperature differential between extract setpoint and actual value [1/100°C]
Heating	Control	Standard	ExTTempHeatPB	4x0166	x.xx	AV145	x.xx	200	10000	500 P-band for extract air temperature control [1/100°C]
Cooling coil	Control	Standard	ExTTempCool_IT	4x0167	x.xx	AV146	x.xx	10	30000	1000 H-time for extract cooling control [sec]
Heat exchanger	Control	Standard	ExTtempEXC_It	4x0168	x.xx	AV147	x.xx	10	30000	300 H-time for extract heat exchanger control [sec]
Heating Fan	Control	Standard	ExTtempHeat_It	4x0169	x.xx	AV148	x.xx	10	30000	600 H-time for extract heating control [sec]
Fan	Control	Standard	ExTtempDnRegIt	4x0170	x.xx	AV149	x.xx	10	30000	300 H-time for extract flow reduction in case of low supply temperature [sec]
Heat pump	Control	Standard	ExTtempHeat2IT	4x0171	x.xx	NA	NA	10	30000	600 H-time for heating 2 control [sec]
AHU controller	Control	Standard	ExTtempHP_IT	4x0173	x.xx	NA	NA	10	30000	600 H-time for heat pump control [sec]
AHU controller	Summer/Winter comp	Standard	SWTC_WintX1	4x0175	x.xx	AV150	x.xx	0	3000	-1500 Summer/Winter temp. comp.: low outdoor temp. setpoint, winter [1/100°C]
AHU controller	Summer/Winter comp	Standard	SWTC_WintX2	4x0176	x.xx	AV151	x.xx	-1000	1000	0 Summer/Winter temp. comp.: high outdoor temp. setpoint, winter [1/100°C]
AHU controller	Summer/Winter comp	Standard	SWTC_SumX1	4x0177	x.xx	AV152	x.xx	1000	3000	2000 Summer/Winter temp. comp.: low outdoor temp. setpoint, summer [1/100°C]
AHU controller	Summer/Winter comp	Standard	SWTC_SumX2	4x0178	x.xx	AV153	x.xx	2000	4000	3000 Summer/Winter temp. comp.: high outdoor temp. setpoint, summer [1/100°C]
AHU controller	Summer/Winter comp	Standard	SWTCWinComVal	4x0179	x.xx	AV154	x.xx	0	1000	500 Summer/Winter temp. comp.: winter compensation [1/100°C]
AHU controller	Summer/Winter comp	Standard	SWTCSumComVal	4x0180	x.xx	AV155	x.xx	-1000	1000	-500 Summer/Winter temp. comp.: summer compensation [1/100°C]
AHU controller	Summer/Winter comp	Standard	SW_Mode	4x0185	x.xx	AV156	x.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	Summer/Winter comp	Standard	SW_OutWinterON	°C	4x0186	x.xx	AV157	x.xx	-3000	4000	0	Outdoor temperature for start of winter operation (SW_Mode = 1) [1/100°C]
AHU controller	Standard	Summer/Winter comp	Standard	SW_OutSummerON	°C	4x0187	x.xx	AV158	x.xx	-3000	4000	2000	Outdoor temperature for start of summer operation (SW_Mode = 1) [1/100°C]
AHU controller	Standard	Summer/Winter comp	Standard	SW_MonthWinterON	°C	4x0188	x.xx	AV159	x.xx	7	12	11	Month for start of winter operation (SW_Mode = 2)
AHU controller	Standard	Summer/Winter comp	Standard	SW_DateWinterON	°C	4x0189	x.xx	AV160	x.xx	1	31	1	Date for start of winter operation (SW_Mode = 2)
AHU controller	Standard	Summer/Winter comp	Standard	SW_MonthSummerON	°C	4x0190	x.xx	AV161	x.xx	1	6	5	Month for start of summer operation (SW_Mode = 2)
AHU controller	Standard	Summer/Winter comp	Standard	SW_DateSummerON	°C	4x0191	x.xx	AV162	x.xx	1	31	1	Date for start of summer operation (SW_Mode = 2)
Damper, Recirculation	Standard	Set point	Standard	RecircStartTemp	°C	4x0195	x.xx	AV163	x.xx	500	4000	1900	Startup temperature for recirculation [1/100 °C]
Damper, Recirculation	Standard	Set point	Standard	RecircStopTemp	°C	4x0196	x.xx	AV164	x.xx	500	4000	2100	Stop temperature for recirculation [1/100 °C]
AHU controller	Standard	Fire	Standard	SupTempFireAir	°C	4x0200	x.xx	AV165	x.xx	5000	4000	8000	Setpoint for internal fire alarm in supply duct [1/100°C]
AHU controller	Standard	Fire	Standard	ExtTempFireAir	°C	4x0201	x.xx	AV166	x.xx	3500	12000	7000	Setpoint for internal fire alarm in extract duct [1/100°C]
Cooling coil	Standard	Control	Standard	CoolFlowForcePc	%	4x0205	x.xx	AV167	x.xx	0	10000	2500	Increase in fan speed when cooling is active [%]
Cooling coil	Standard	Control	Standard	CoolOutTempMin	°C	4x0206	x.xx	AV168	x.xx	0	3000	1500	Min. outdoor temperature for start of cooling
Cooling coil	Standard	Control	Standard	CoolSupMinTemp	°C	4x0207	x.xx	AV169	x.xx	0	2500	1200	Min. supply temperature when cooling is active (only with room temp. control)
AHU controller	Standard	Summer, Night Cooling	Standard	SN_ExtTempStart	°C	4x0210	x.xx	AV170	x.xx	1500	4000	2300	Summer night extract/room temp. start [1/100°C]
AHU controller	Standard	Summer, Night Cooling	Standard	SN_ExtTempStop	°C	4x0211	x.xx	AV171	x.xx	1000	3000	2000	Summer night extract/room temp. stop [1/100°C]
AHU controller	Standard	Summer, Night Cooling	Standard	SN_OutTempStart	°C	4x0212	x.xx	AV172	x.xx	500	2000	1200	Summer night outdoor temp. start [1/100°C]
AHU controller	Standard	Summer, Night Cooling	Standard	SN_SupTempStart	°C	4x0213	x.xx	AV173	x.xx	500	2000	1000	Summer night supply temp. control setpoint [1/100°C]
AHU controller	Standard	Summer, Night Cooling	Standard	SN_StartTime	Min	4x0214	x.xx	AV174	x.xx	0	1439	360	Summer night start [min]
AHU controller	Standard	Summer, Night Cooling	Standard	SN_StopTime	Min	4x0215	x.xx	AV175	x.xx	0	1439	360	Summer night stop [min]
Heat exchanger	Special	Control	Special	CEXdDeIceTemp	°C	4x0220	x.xx	AV176	x.xx	-500	2000	500	Min. exhaust temp setpoint for cross-flow heat exchanger [1/100°C]
Heat exchanger	Special	Control	Special	CEXdDeIceTemp	°C	4x0221	x.xx	AV177	x.xx	200	2000	500	P-band for bypass control of cross-flow heat exchanger [1/100°C]
Heat exchanger	Special	Control	Special	CEXdDeIcePress	Pa	4x0222	x.xx	NA	NA	10	5000	30	Setpoint for pressure drop across cross-flow exchanger for start of de-icing [Pa]
Heat exchanger	Special	Control	Special	CEXdDeIceTime	Sec	4x0223	x.xx	NA	NA	180	1800	300	Setpoint for duration of heat exchanger de-icing [sec]
Heat exchanger	Standard	Control	Standard	BattEXC_PumpFc	°C	4x0225	x.xx	AV178	x.xx	0	3	1	Circulation pump mode on heat exchanger coil: 0 -> Pump runs constantly 1 -> Pump runs if heat recovery demand is > 0 (AutoMode) 2 -> Pump runs if outdoor temp. is < temp. setpoint for pump start
Heat exchanger	Standard	Control	Standard	BattEXC_PumpSt	°C	4x0226	x.xx	AV179	x.xx	0	4000	1500	ONLY used if CoilEXC_PumpFunc (Address 224) = 2. Pump runs if outdoor temp. is < temp. setpoint for pump start
Heat exchanger	Standard	Alarm	Standard	BattEXC_AIRSet	°C	4x0227	x.xx	AV180	x.xx	-1000	2000	800	Alarm activated if temperature differential (in relation to outdoor temp.) downstream from heat exchanger coil operating at 50% power (or more) is lower than the alarm setpoint
Humidity	Standard	Set point	Standard	Humid_SupSet	%	4x0228	x.xx	NA	NA	0	10000	2000	Humidity setpoint for selected control type (supply/exhaust) [1/100%] RH
Heating coil 1, Water	Standard	Set point	Standard	HW1UpStartPow	%	4x0230	x.xx	AV181	x.xx	0	10000	5000	Heating coil: Startup power setpoint [1/100%]
Heating coil 1, Water	Standard	Control	Standard	HW1PumpFunc	°C	4x0231	x.xx	AV182	x.xx	0	3	1	Circulation pump mode on heating coil: 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
Heating coil 1, Water	Standard	Set point	Standard	HW1PmpStartTemp	°C	4x0232	x.xx	AV183	x.xx	500	3000	1500	ONLY used if HW1_PumpFunc (Address 230) = 2. Start up temp. setpoint for circulation pump on heating coil
Heating coil 1, Water	Standard	Set point	Standard	HW1FrzStopSet	°C	4x0233	x.xx	AV184	x.xx	500	4000	2500	Pump runs if outdoor temp. is < temp. setpoint for pump start
Heating coil 1, Water	Standard	Control	Standard	HW1FrzDriftSet	°C	4x0234	x.xx	AV185	x.xx	200	2000	500	Setpoint for frost protection control when unit is in STOP mode [1/100°C]
Heating coil 1, Water	Standard	Control	Standard	HW1FreezePB	°C	4x0235	x.xx	AV186	x.xx	200	2000	500	P-band for frost protection control [1/100°C]
Heating coil 1, Water	Standard	Set point	Standard	HW1FrzAIRTpSet	°C	4x0236	x.xx	AV187	x.xx	200	2000	200	Setpoint for frost protection temp. alarm [1/100°C]
Heating coil 1, Water	Standard	Set point	Standard	HW1PmpStartPrc	%	4x0237	x.xx	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 coil	Standard	Control	Standard	CW_PumpFunc	°C	4x0240	x.xx	AV188	x.xx	0	3	0	Cooling water pump mode: 0 -> Pump runs constantly 1 -> Pump runs if cooling power is > 0 (AutoMode) 2 -> Pump runs if outdoor temp. > temp. setpoint for pump start
Cooling coil	Standard	Set point	Standard	CW_PmpStartTemp	°C	4x0241	x.xx	AV189	x.xx	500	4000	2100	ONLY used if CW_PumpFunc (Address 239) = 2 Temp. setpoint for start of cooling coil pump
GreenZone	Standard	Set point	Standard	FanOptSupExIn	%	4x0242	x.xx	AV223	x.xx	0	10000	External signal GreenZone, supply [1/100%]	
GreenZone	Standard	Set point	Standard	FanOptEXEXIn	%	4x0243	x.xx	AV224	x.xx	0	10000	External signal GreenZone, exhaust [1/100%]	
Filter	Standard	Alarm	Standard	FilISupSteAIR	Pa	4x0245	x.xx	AV190	x.xx	10	5000	80	Alarm limit for pressure drop across intake filter (static mode)
Filter	Standard	Alarm	Standard	FilEXStAIR	Pa	4x0246	x.xx	AV191	x.xx	10	5000	80	Alarm limit for pressure drop across exhaust filter (static mode)
Filter	Standard	Alarm	Standard	FilISupDynAIR	%	4x0247	x.xx	AV192	x.xx	1000	10000	5000	Alarm limit for pressure drop across intake filter (dynamic mode)
Filter	Standard	Alarm	Standard	FilEXtDynAIR	%	4x0248	x.xx	AV193	x.xx	1000	10000	5000	Alarm limit for pressure drop across exhaust filter (dynamic mode)
Filter	Standard	Alarm	Standard	FilISup2SteAIR	Pa	4x0249	4.18	AV258	4.18	10	500	80	Filter Pressure Air Limit for SupFilter2 (static mode)
AHU controller	Standard	Alarm	Standard	AI_ MailSetup	°C	4x0250	x.xx	AV194	x.xx	0	3	0	Alarm email setup 0 -> Emails not sent 1 -> Emails sent for A-alarms 2 -> Emails sent for B-alarms 3 -> Emails sent for A and B-alarms

Parameter	Unit	Value	Min	Max	Resolution	Factory Default	Control Type	Standard	Notes
AHU controller	Alarm	AV195	x.xx	0	4	0	User RE (B-Alarm relay) Function: 0 -> B-alarm 1 -> Low speed indication 2 -> High speed indication 3 -> Medium speed indication Pre-heating coil - Start-up output setpoint [1/100%]: 5000 when system is in start-up sequence Pre-heating coil Circulation pump function: 0 -> Pump runs constantly 1 -> Pump runs if heat output is > 0 (AutoMode) 2 -> Pump runs if outdoor temp. is > temp. setpoint for pump start Pre-heating coil Start temperature for circulation pump of pre-heating coil. 1000 ONLY used if PHpumpMode (Address 252) = 2 Pump runs if outdoor temp. is < temp. setpoint for pump start Pre-heating coil Setpoint for frost protection control when system is in STOP mode [1/100°C] 2500	Standard	
Preheater coil	Set point	AV206	x.xx	0	30000	0	PHStartPrc	Standard	
Preheater coil	Control	AV210	x.xx	0	4	0	PHpumpMode	Standard	
Preheater coil	Set point	AV208	x.xx	500	3000	500	PHpmpStTmPH	Standard	
Preheater coil	Set point	AV205	x.xx	500	4000	500	PHStandbyTmP	Standard	
Preheater coil	Set point	AV209	x.xx	200	2000	200	PHFrzDSetH	Standard	
Preheater coil	Control	AV207	x.xx	200	2000	200	PHHeatFrzPB	Standard	
Preheater coil	Alarm	AV204	x.xx	-4000	10000	-4000	PHMirAlFrz	Standard	
Preheater coil	Set point	AV203	x.xx	-3000	2000	-3000	PHHeatSet	Standard	
Heating coil 2, Water	Set point	AV196	x.xx	0	10000	0	HW2UpStartPow	Standard	
Heating coil 2, Water	Control	AV197	x.xx	0	3	0	HW2PumpFunc	Standard	
Heating coil 2, Water	Set point	AV198	x.xx	500	3000	500	HW2PmpStartTmP	Standard	
Heating coil 2, Water	Set point	NA	x.xx	0	10000	0	HW2PmpStartPrc	Standard	
Heating coil 2, Water	Set point	AV199	x.xx	500	4000	500	HW2FrzStopSet	Standard	
Heating coil 2, Water	Set point	AV200	x.xx	200	2000	200	HW2FrzDriftSet	Standard	
Heating coil 2, Water	Control	AV201	x.xx	200	2000	200	HW2FreezePB	Standard	
Heating coil 2, Water	Alarm	AV202	x.xx	200	2000	200	HW2FrzAlFrzSet	Standard	
Cooling coil	Set point	NA	x.xx	0	10000	0	CW_PumpStartPr	Standard	
Heat exchanger	Set point	NA	x.xx	0	10000	0	BattEXCPmpStPr	Standard	
Heat pump	Set point	AV215	x.xx	-4000	4000	-4000	HP_MinOpTemp1	Special	
Heat pump	Set point	AV216	x.xx	-4000	4000	-4000	HP_MinOpTemp2	Special	
Heat pump	Set point	AV217	x.xx	-4000	4000	-4000	HP_MinOpTemp3	Special	
Heat pump	Set point	AV218	x.xx	-4000	4000	-4000	HP_MinOpTemp4	Special	
Combi coil	Set point	AV286	x.xx	0	10000	0	CombiUpStPow	Standard	
Combi coil	Control	AV287	x.xx	0	3	0	CombiPumpFunc	Standard	
Combi coil	Set point	AV288	x.xx	500	3000	500	CombiPmpStTmPH	Standard	
Combi coil	Set point	AV289	x.xx	0	10000	0	CombiPmpStPrc	Standard	
Combi coil	Set point	AV290	x.xx	500	4000	500	CombiFrzStopSet	Standard	
Combi coil	Control	AV291	x.xx	200	2000	200	CombiFrzDriftSet	Standard	
Combi coil	Set point	AV292	x.xx	200	2000	200	CombiFrzPB	Standard	
Combi coil	Set point	AV293	x.xx	200	2000	200	CombiFrzAlFrzSet	Standard	
Heat exchanger	Set point	AV219	x.xx	-1000	4000	-1000	BattEXCFrzStop	Standard	



AHU controller	Control	Standard	BMSDrCtrlReg	4x0500	x.xx	AV244	x.xx	0	1000	11 = BMS stop 105 = BMS low speed 210 = BMS high speed 211 = BMS sommernight cooling 220 = BMS night heating mode (Recirculation) 414 = BMS medium speed  BMS-modes only available after activation of physical input "Operating mode via BMS" BMS outdoor temperatur [1/100°C] BMS room temperatur [1/100°C]
Temp. out door	Current value	Standard	MBT_OutDoor	4x0501	x.xx	AV245	x.xx	-6000	6000	
Temp. room	Current value	Standard	MBT_Room1	4x0502	x.xx	AV246	x.xx	-4000	4000	