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Information **EN**

MODBUS / BACNET

0661151_R03

OJ Air2 Master Controller RJ12 Modbus/RTU connection

Fig. 1 OJ Air Master, Connector diagram, visual topside down

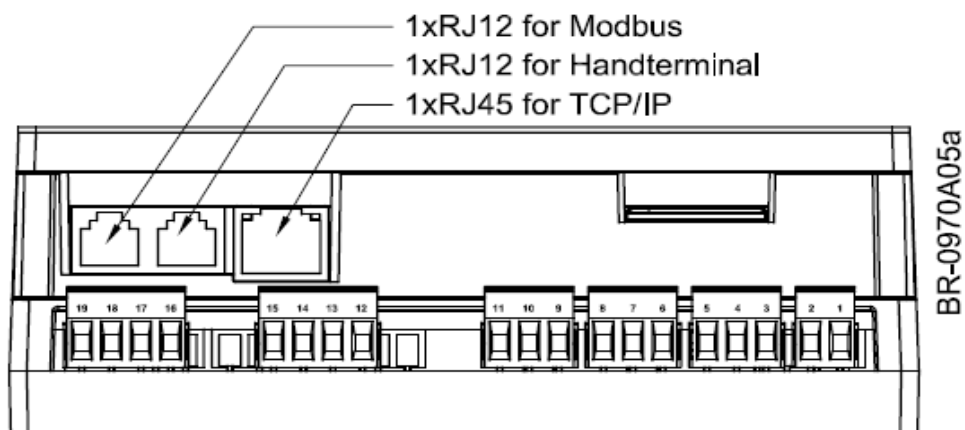


Fig. 2 Configuration for communication via external Modbus

OJ-Air2 basic training SW6.10 - EN



Communication via external Modbus RTU / RS485

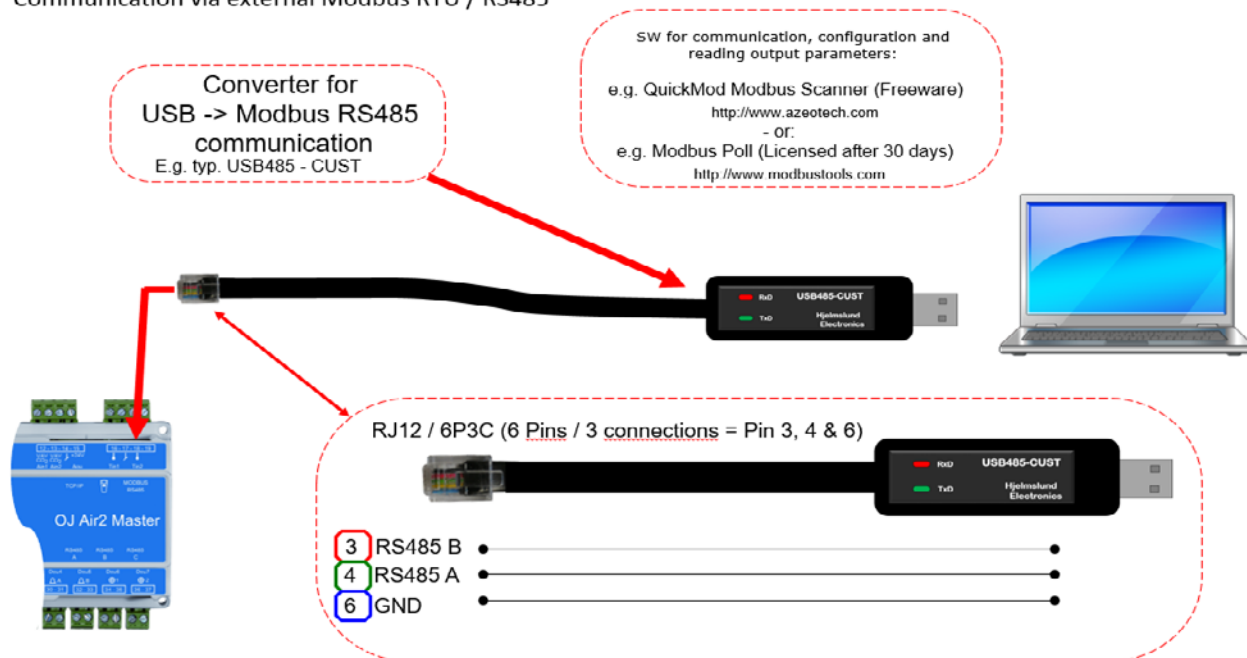
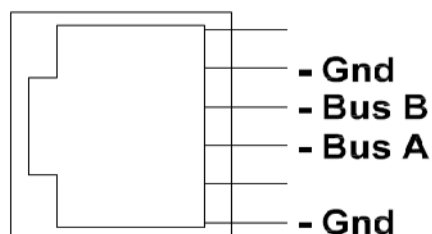


Fig. 3 Modbus RS485 - RJ12 socket



Modbus RTU/TCP

OJ Air2, Program version 6.30 and later versions

Overview

This Protocol contains all Modbus addresses and registers in the OJ-Air2Master. Updating of values in the individual registers is dependent on the actual configuration of the air handling unit. It will, for example, be possible to read out water heating coil temperature register 3x0030 irrespective of whether or not an water heating coil is installed in the system concerned. The value will, however, only be used if the associated temperature sensor is installed. Modbus can access single addresses or several addresses simultaneously, either reading or writing 1-bit or 16-bit values. A Modbus address contains either a 1-bit value or a 16-bit integer.

Communication

TCP/IP: 1 x 10/100 Mbit Ethernet, RJ45 connector.
Modbus RS485: 1 x external Modbus, RS485, RJ12 connector, which can be set for 9.6 kBd, 19.2 kBd or 38.4 kBd.
Pin1 NC, Pin2 GND, Pin3 RS485 B, Pin4 RS485 A, Pin5 NC, Pin6 GND (see fig. 2).
Hand terminal: 1 x Modbus, RS485, 115 kBd, +24 V DC, RJ12 connector.
RS485 A: Not in use
RS485 B & C: 2 x shared local Modbus, RS485, 38.4 kBd, +24 V DC, RJ12 connector.
Standard Modbus TCP/IP kommunikationsport: 502

Modbus data format

Modbus data types are 1-bit values and 16-bit values.

Modbus Type	Description	Reference
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

Supported Modbus commands

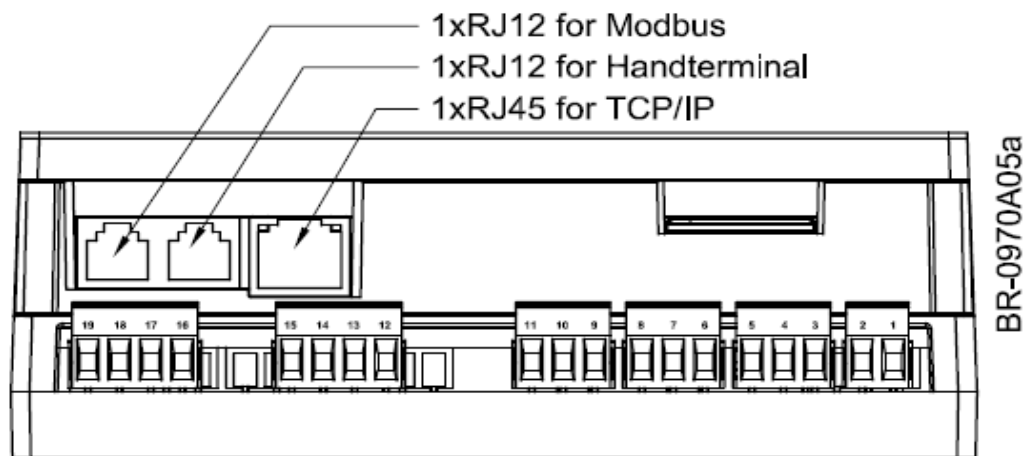
OJ Air2 supports the following Modbus commands:

Function code	Description
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-function 00 Only - Return Query Data (loop back)
15	Force Multiple Coils
16	Preset Multiple Registers

OJ Air2 Master Controller

1 x RJ45 TCP/IP for BACnet/IP forbindelse for internal BACnet-server
in OJ Air2 Master

Fig. 1 OJ Air Master, Connector diagram, visual topside down



BACnet

OJ Air2, Program version 4.18 and subsequent versions.

Overview

BACnet features enable BACnet control and monitoring of a complete

Air Handling Unit (AHU), which is equipped with an OJ-Air2Master controller.

The BACnet functionality is implemented in OJ-Air2Masters with software version 2.00 or higher.

This protocol contains all BACnet addresses and registers in the OJ-Air2 Master. Updating of values in the individual registers is dependent on the actual configuration of the air handling unit. It will, for example, be possible to read out water heating coil temperature Analog Input Object Instance 26 irrespective of whether or not an water heating coil is installed in the system concerned.

The value will, however, only be used if the associated temperature sensor is installed.

The OJ-Air2Master is a BACnet Advanced Application Controller (B-AAC)

Supported Data Link Layer Options: BACnet IP

Please also see the documents "OJ-Air2 BACnet PICS" (Protocol Implementation Conformance Statement) and "OJ-Air2 EDE" (Engineering Data Exchange).

Communication

BACnet TCP/IP: 1 pcs. 10/100Mbit Ethernet, RJ45 socket

Standard BACnet TCP/IP communication port: 47808

Object Identifier:

The Object_Identifier is automatic set to the last 5 digits in the OJ-Air2Master IP adress.

Samples: 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! The Object_Identifier will only be set once and only when the OJ-Air2 Master is powered up or restarted

Max. 300 values can at the same time be registered to the COV (Change Of Value)

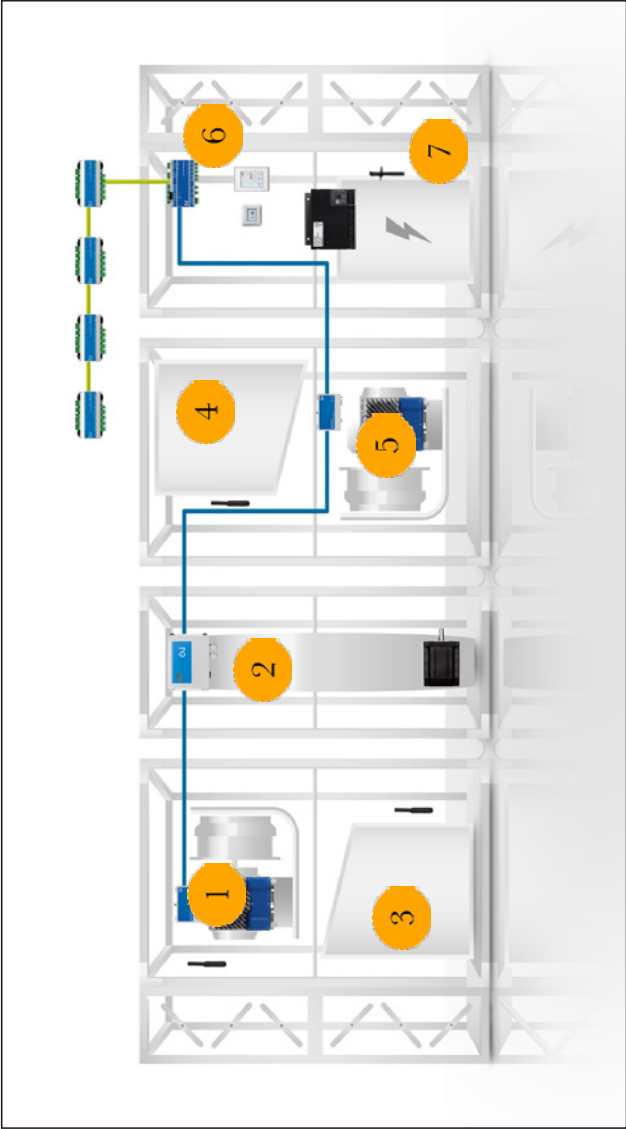
BACnet Interoperability Building Blocks Supported

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.

BACnet/Modbus overview



	BacNet	Modbus
Actual operating mode	AI 0	3x0001
Operation ON/OFF	BI 0	1x0001
Extended low speed -> Active	BI 3	1x0004
Extended high speed -> Active	BI 4	1x0005
Alarm relay 1 (A-alarm)	BI 30	1x0035
Alarm relay 2 (B-alarm)	BI 31	1x0036
Alarm reset signal (AutoReturn to zero)	BV 0	0x0001

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

1	Actual exhaust temp. [1/100°C] Actual extract flow [l/s] Extract motor output percentage [1/100%] Setpoint for extract flow, low speed [l/s] Setpoint for extract flow, medium speed [l/s] Setpoint for extract flow, high speed [l/s]	AI 22 AI 7 AI 60 AV 12 AV 254 AV 13	3x0026 3x0009 3x0083 4x0014 4x0321 4x0015
2	Rot. heat exchanger – output percent. [%]	AI 73	3x0097
3	Actual outdoor temp. [1/100°C] Inlet filter pressure [Pa] Inlet filter monitor max. alarm limit [Pa]	AI 20 AI 27 AI 31	3x0024 3x0031 3x0039
4	Extract filter pressure [Pa] Max. alarm limit, extract filter pressure drop [Pa]	AI 28 AI 32	3x0032 3x0040
5	Actual inlet flow [l/s] Inlet motor output percentage [1/100%] Setpoint for inlet flow, low speed [l/s] Setpoint for inlet flow, medium speed [l/s] Setpoint for inlet flow, high speed [l/s]	AI 5 AI 51 AV 10 AV 251 AV 11	3x0007 3x0073 4x0011 4x0320 4x0012
6	Actual room temperature [1/100 °C] Actual extract duct pressure [Pa] Setpoint for duct pressure, extract, low speed [Pa] Setpoint for duct pressure, extract, medium speed [Pa] Setpoint for duct pressure, extract, high speed [Pa]	AI 21 AI 3 AV 6 AV 255 AV 7	3x0025 3x0005 4x0007 4x0323 4x0008
7	Actual inlet temperature [1/100°C] Control type setting Temperature setpoint for actual control type Min. limit, inlet temp. [1/100°C] Max. limit, inlet temp. [1/100°C] Actual heating power [1/100%] Heating relay 1 Act. heating bat. temp.[1/100°C] Actual cooling power [1/100%] Actual inlet duct pressure [Pa] Setpoint for duct pressure, inlet, low speed [Pa] Setpoint for duct pressure, inlet, medium speed [Pa] Setpoint for duct pressure, inlet, high speed [Pa]	AI 16 AV 133 AV 134 AV 135 AV 136 AI 36 BI 26 AI 26 AI 38 AI 1 AV 2 AV 252 AV 3	3x0020 4x0148 4x0149 4x0150 4x0151 3x0054 1x0031 3x0030 3x0056 3x0003 4x0003 4x0322 4x0004

Component	Function	Standard/ Special	Name	SI Unit	Modbus register	SW vers.	BacNet parameter Binary value (RW)	SW vers.	Min	Max	Factory settings	English
1. Info	1. Info	1. Info	1. Info									
AHU controller	Alarm	Standard	At_ Reset		0x0001	xxx	BV0	xxx	0	1		Alarm reset signal (AutoReturn to zero)
Heat exchanger	Cool recovery	Standard	CoolRecvFunc		0x0002	xxx	BV1	xxx	0	1		0 Cooling recovery: ON/OFF
AHU controller	Summer/Writer comp.	Standard	SN_Func		0x0003	xxx	BV2	xxx	0	1		0 Summer night cooling: ON/OFF
AHU controller	Summer/Writer comp.	Standard	SWTC_Func		0x0004	xxx	BV3	xxx	0	1		0 Summer/Writer temp. compensation: ON/OFF
Fan	Outdoor temp. comp.	Standard	FWTmPmpFunc		0x0005	xxx	BV4	xxx	0	1		0 Flow/outdoor temperature compensation: ON/OFF
Damper, Recirculation	Recirculation heat	Standard	RecircFunc		0x0006	xxx	BV5	xxx	0	1		0 Recirculation: ON/OFF
Fan	Forced cooling	Standard	CoolFwForeFc		0x0007	xxx	BV6	xxx	0	1		0 Forced flow with cooling demand: ON/OFF
AHU controller	Summer/Writer time	Standard	TimeSw-SumFunc		0x0008	xxx	BV7	xxx	0	1		1 Automatic summer/writer time: ON/OFF
Fan	Speed	Standard	ExtDrFrcdON		0x0009	xxx	BV8	xxx	0	1		0 Input for forced high speed
Fan	Speed	Standard	ExtDrFrcdON		0x0010	xxx	BV9	xxx	0	1		0 Room time for forced high speed active
Heat exchanger drive	Speed	Standard	EXC_CCV		0x0011	xxx	NA	NA	0	1		0 Rotary heatexchanger: turn rotation direction to counter clock wise (CCW)
Fan	Speed	Standard	ExtDrFrcdPeriod		0x0012	xxx	NA	NA	0	1		0 Input for forced medium speed
Pressure	Calibration	Standard	ManZeroCall		0x0020	xxx	BV10	4.18	0	1		0 Start manual zero calibration (can be used together with automatic zero calibration)
Pressure	Calibration	Standard	AutoZeroCall		0x0021	xxx	BV11	4.18	0	1		0 Is automatically reset to zero (OFF) once calibration has been completed
Filter	Alarm	Standard	FltDynAlFunc		0x0022	xxx	BV12	xxx	0	1		0 Dynamic filter alarm -> ON/OFF
Filter	Calibration	Standard	FltCalibrate		0x0023	xxx	BV13	xxx	0	1		0 ON -> dynamic alarm limit (limit based on flow)
Filter	Control	Standard	FltCalDone		0x0024	xxx	BV14	4.18	0	1		0 Start filter calibration. Is automatically reset to zero (OFF) once calibration has been completed.
Combi coil	Control	Standard	CmbErChMB		0x0025	xxx	BV21	6.20	0	1		0 Filter calibration completed (valid filter data)
Combi coil	Control	Standard	CmbErHeatMB		0x0026	xxx	BV17	xxx	0	1		0 NOTE ONLY F "DYNAMIC MODE" IS SET
Combi coil	Control	Standard	CmbErCoolMB		0x0027	xxx	BV18	xxx	0	1		0 Enable combi coil for control via external Modbus (1=Modbus/0=Dg. input)
Temp. Out door	Control	Standard	MBTOutdAct		0x0028	xxx	BV15	xxx	0	1		1 Hot water supply is available for the combi coil
Temp. Room	Control	Standard	MBTRoomActv		0x0029	xxx	BV16	xxx	0	1		1 Cold water supply is available for the combi coil
Damper, Recirculation	Recirculation heat	Standard	MBRrRoomRec		0x0030	xxx	BV19	xxx	0	1		0 Activate outdoor temperature from BMS
Damper, Recirculation	Recirculation heat	Standard	MBRrRoomRec		0x0031	xxx	BV20	4.18	0	1		0 Activate room temperature from BMS
1. Info	1. Info	1. Info	1. Info									
AHU controller	Speed	Standard	ExtDrFrcdON		1x0001	xxx	B10	xxx	0	1		0 Force recirc via Ext. Modbus
AHU controller	Speed	Standard	ExtDrFrcdON		1x0002	xxx	B11	xxx	0	1		0 Enable Modbus Force recirc signal
AHU controller	Speed	Standard	ExtDrFrcdON		1x0003	xxx	B12	xxx	0	1		0 External stop
AHU controller	Speed	Standard	ExtDrFrcdON		1x0004	xxx	B13	xxx	0	1		0 Extended high speed -> Active
AHU controller	Speed	Standard	ExtDrFrcdON		1x0005	xxx	B14	xxx	0	1		0 Extended low speed -> Active
AHU controller	Fire	Standard	ExtDrFrcdON		1x0006	xxx	B178	xxx	0	1		0 Status Brandstop input
Fan	Speed	Standard	ExtDrFrcdON		1x0007	xxx	B1225	xxx	0	1		0 Extended medium speed -> Active
Heating coil, Electric	Status	Standard	EBatPowerRed		1x0010	xxx	B15	xxx	0	1		0 Power to electric heating coil reduced due to low flow
AHU controller	Summer Night Cooling	Standard	SN_Drft		1x0011	xxx	B16	xxx	0	1		0 Summer night cooling is active
AHU controller	Summer Night Cooling	Standard	SWTC_MinComp		1x0012	xxx	B17	xxx	0	1		0 Reset parameters for summer night cooling (new calculation is initiated)
AHU controller	Summer/Writer comp.	Standard	SWTC_SumComp		1x0013	xxx	B18	xxx	0	1		0 After temperature compensation is active
AHU controller	Summer/Writer comp.	Standard	SWTC_SumComp		1x0014	xxx	B19	xxx	0	1		0 Summer/Writer actual status
AHU controller	Summer/Writer comp.	Standard	SW_Status		1x0015	xxx	B110	xxx	0	1		0 ON -> winter operation ("1")
Damper, Recirculation	Recirculation heat	Standard	RecircStatus		1x0016	xxx	B111	xxx	0	1		0 Recirculation status
Heat exchanger	Speed	Standard	EXC_Exercise		1x0017	xxx	B112	xxx	0	1		0 Exercising heat exchanger -> Active
Heat exchanger	Status	Standard	CExcProtect		1x0018	xxx	B113	xxx	0	1		0 Signal to cross-flow exchanger reduced (frost protection)
Fan	Status	Standard	SupDuctMinFlow		1x0019	xxx	B114	xxx	0	1		0 Supply duct pressure controller reduced to min. flow
Fan	Status	Standard	SupDuctMaxFlow		1x0020	xxx	B115	xxx	0	1		0 Supply duct pressure controller increased to max. flow
Fan	Status	Standard	ExtDrFrcdON		1x0021	xxx	B116	xxx	0	1		0 Extract duct pressure controller reduced to min. flow
Fan	Status	Standard	ExtDrFrcdON		1x0022	xxx	B117	xxx	0	1		0 Extract duct pressure controller increased to max. flow
Heat exchanger	Status	Standard	CoolRecovery		1x0023	xxx	B118	xxx	0	1		0 Cooling recovery -> status
Heating coil 1, Water	Status	Standard	HW1FrostReg		1x0024	xxx	B119	xxx	0	1		0 Circulation pump on heating coil: Frost protection -> Active
Heating coil 1, Water	Status	Standard	HW1 PumpExer		1x0025	xxx	B120	xxx	0	1		0 Circulation pump on heating coil: Pump exercising -> Active
Cooling coil	Status	Standard	CW_PumpExer		1x0026	4.18	B121	xxx	0	1		0 CoolWater/Coil PumpExercise active
Heating coil 1, Electric	Status	Standard	Heat_FMDrReg		1x0027	xxx	B122	xxx	0	1		0 Signal to heating coil reduced (insufficient flow) -> Active
AHU controller	Status	Standard	TempRegMinSup		1x0028	xxx	B123	xxx	0	1		0 "1" when min. supply temperature control is active.
AHU controller	Status	Standard	TempRegMaxSup		1x0029	xxx	B124	xxx	0	1		0 "1" when min. supply temperature control is active.
Heat exchanger	Status	Standard	BatEXC_Exer		1x0030	xxx	B125	xxx	0	1		0 Only active when TempRegMode is 1 or 2 (room temp. control)
Heating coil 1	Status	Standard	Heat_RE1		1x0031	xxx	B126	xxx	0	1		0 Only active when TempRegMode is 1 or 2 (room temp. control)
Cooling coil	Status	Standard	Cool_RE1		1x0032	xxx	B127	xxx	0	1		0 Circulation pump on heat recovery coil.
Heat exchanger	Status	Standard	BatEXC_PumpRE		1x0033	xxx	B128	xxx	0	1		0 Pump exercising -> Active
AHU controller	Alarm	Standard	AtActive		1x0034	xxx	B129	xxx	0	1		0 Heating relay 1
AHU controller	Alarm	Standard	At_RE1		1x0035	xxx	B130	xxx	0	1		0 Circulation pump on heat (recovery) coil:
AHU controller	Alarm	Standard	At_RE2		1x0036	xxx	B131	xxx	0	1		0 Pump -> Running
AHU controller	Fire	Standard	At_FreSignal		1x0037	xxx	B132	xxx	0	1		0 At least one active alarm
AHU controller	Smoke	Standard	At_SmokeSig		1x0038	xxx	B133	xxx	0	1		0 Alarm relay 2 (Balarm)
Heating coil, Electric	Alarm	Standard	EL1_OverHbac		1x0039	xxx	B1219	xxx	0	1		0 Smoke/fire alarm signal (duct sensor)
Heating coil, Electric	Alarm	Standard	EL1BatBatCnt		1x0040	xxx	B1220	xxx	0	1		0 Electric coil: High temperature alarm signal
Filter	Alarm	Standard	FltSupAlarm		1x0041	xxx	B135	xxx	0	1		0 Electric coil: Relay stuck
Filter	Alarm	Standard	FltExdAlarm		1x0042	xxx	B136	xxx	0	1		0 Filter alarm for supply filter
Heat exchanger	Alarm	Standard	EBat2Alarm		1x0043	xxx	B137	xxx	0	1		0 Filter alarm for extract filter (pressure drop above set limit)
Heating coil 2, Electric	Status	Special	CExcDecing		1x0044	xxx	B138	xxx	0	1		0 Filter alarm for Sup2-Filter (pressure above Limit)
Filter	Alarm	Standard	FltSup2Alarm		1x0045	4.18	B1253	4.18	0	1		0 Reduction of cross-flow exchanger due to de-chng. deicing started
Temp. Supply	Alarm	Standard	SupTempSensErr		1x0049	xxx	B1254	4.18	0	1		0 Electric coil 2: Output reduction active due to low flow
Temp. Supply	Alarm	Standard	SupTempSensErr		1x0050	xxx	B1255	xxx	0	1		0 Filter Alarm for Ex2-Filter (pressure above Limit)
Temp. Extract	Alarm	Standard	ExtTempSensErr		1x0051	xxx	B137	xxx	0	1		0 Supply temperature sensor – sensor fault
Temp. Out door	Alarm	Standard	OutDoorSensErr		1x0052	xxx	B138	xxx	0	1		0 Extract temperature sensor – sensor fault
Temp. Out door	Alarm	Standard	OutDoorSensErr		1x0052	xxx	B139	xxx	0	1		0 Outdoor temperature sensor – sensor fault

Temp. Room	Alarm	Standard	RoomSensErr	1x0053	xxx	B440	xxx	0	1	Room temperature sensor – sensor fault
Temp. Exhaust	Alarm	Standard	ExhaustSensErr	1x0054	xxx	B441	xxx	0	1	Exhaust temperature sensor – sensor fault
Heating coil 1, Water	Alarm	Standard	HW1SensErr	1x0055	xxx	B42	xxx	0	1	Heating coil temperature sensor – sensor fault
Heat exchanger	Alarm	Standard	BatEXC_SensErr	1x0056	xxx	B43	xxx	0	1	Heat recovery coil temperature sensor – sensor fault
Heating coil 1, Water	Alarm	Standard	HW1FrostAlr	1x0057	xxx	B44	xxx	0	1	Heating coil frost alarm
Cooling coil	Alarm	Standard	Cool_SimAlarm	1x0060	xxx	B45	xxx	0	1	Cooling shared alarm
Heating coil 1, Water	Alarm	Standard	Cool_Lin_Alarm	1x0061	xxx	B46	xxx	0	1	Cooling digital alarm 1 input
Cooling coil	Alarm	Standard	Cool_DiG_Alarm	1x0062	xxx	B47	xxx	0	1	Cooling digital alarm 2 input
Cooling coil	Alarm	Standard	Cool_DiG_Alarm	1x0063	xxx	B48	xxx	0	1	Cooling digital alarm 3 input
Cooling coil	Alarm	Standard	Cool_DiG_Alarm	1x0064	xxx	B49	xxx	0	1	Cooling digital alarm 4 input
Fan, Supply drive	Status	Standard	SupMotorON	1x0070	xxx	B50	xxx	0	1	Supply motor ON/OFF
Fan, Supply drive	Alarm	Standard	SupMotorAlarm	1x0071	4.18	B51	4.18	0	1	Supply motor ON/OFF
Fan, Supply drive	Alarm	Standard	FCsupMtrAlVb	1x0072	xxx	B52	xxx	0	1	Supply motor low voltage alarm (only with OJ-FC)
Fan, Supply drive	Alarm	Standard	FCsupMtrAlVb	1x0073	xxx	B53	xxx	0	1	Supply motor high voltage alarm (only with OJ-FC)
Fan, Supply drive	Alarm	Standard	FCsupMtrAlHi	1x0074	xxx	B54	xxx	0	1	Supply motor high current alarm (only with OJ-FC)
Fan, Supply drive	Alarm	Standard	FCsupMtrAlTnp	1x0075	xxx	B55	xxx	0	1	Supply motor phase fault alarm (only with OJ-FC)
Fan, Supply drive	Alarm	Standard	FCsupMtrAlPhs	1x0076	xxx	B56	xxx	0	1	Supply motor high current limit, short-circuit protection (only with OJ-FC)
Fan, Supply drive	Alarm	Standard	FCsupMtrHlLim	1x0077	xxx	B57	NA	0	1	Supply motor V Rippel Alarm
Fan, Supply drive	Status	Standard	FCsupMtrAlRip	1x0078	xxx	B58	xxx	0	1	Extract motor ON/OFF
Fan, Supply drive	Status	Standard	ExMtorON	1x0079	4.18	B57	4.18	0	1	Extract motor low voltage alarm
Fan, Extract drive	Alarm	Standard	ExMtorAlVb	1x0080	xxx	B59	xxx	0	1	Extract motor high voltage alarm
Fan, Extract drive	Alarm	Standard	ExMtrAlVb	1x0082	xxx	B61	xxx	0	1	Extract motor high current alarm
Fan, Extract drive	Alarm	Standard	ExMtrAlVb	1x0083	xxx	B62	xxx	0	1	Extract motor high current alarm
Fan, Extract drive	Alarm	Standard	ExMtrAlVb	1x0084	xxx	B63	xxx	0	1	Extract motor temperature alarm
Fan, Extract drive	Alarm	Standard	ExMtrAlVb	1x0085	xxx	B64	xxx	0	1	(only with OJ-FC)
Fan, Extract drive	Alarm	Standard	ExMtrAlVb	1x0086	xxx	B65	xxx	0	1	Extract motor phase fault alarm
Fan, Extract drive	Alarm	Standard	ExMtrAlVb	1x0087	xxx	B67	NA	0	1	Extract motor ripple voltage alarm
Fan, Extract drive	Alarm	Standard	ExMtrAlVb	1x0088	xxx	B67	xxx	0	1	Extract motor high current limit
Fan, Extract drive	Alarm	Standard	ExMtrAlVb	1x0089	4.18	B66	4.18	0	1	ExtractMotor V Rippel Alarm
Heat exchanger drive	Status	Standard	EXC_ON	1x0090	xxx	B68	xxx	0	1	Rotary heat exchanger – motor control ON/OFF (only with OJ-RHX2M)
Heat exchanger drive	Status	Standard	EXC_Reset	1x0091	xxx	B69	xxx	0	1	Rotary heat exchanger – reset signal (only with OJ-RHX2M)
Heat exchanger drive	Status	Standard	EXC_Direction	1x0092	xxx	B70	xxx	0	1	Rotary heat exchanger – rotation direction (only with OJ-RHX2M)
Heat exchanger drive	Alarm	Standard	EXC_RotAlarm	1x0093	xxx	B71	xxx	0	1	Rotary heat exchanger – rotation alarm (only with OJ-RHX2M)
Heat exchanger drive	Alarm	Standard	EXC_VioAlarm	1x0094	xxx	B72	xxx	0	1	Rotary heat exchanger – low voltage alarm (only with OJ-RHX2M)
Heat exchanger drive	Alarm	Standard	EXC_VnAlarm	1x0095	xxx	B73	xxx	0	1	Rotary heat exchanger – high voltage alarm (only with OJ-RHX2M)
Heat exchanger drive	Alarm	Standard	EXC_InvAlarm	1x0096	xxx	B74	xxx	0	1	Rotary heat exchanger – high current alarm (only with OJ-RHX2M)
Heat exchanger drive	Alarm	Standard	EXC_TempAlarm	1x0097	xxx	B75	xxx	0	1	Rotary heat exchanger – temperature alarm
Heat exchanger drive	Status	Standard	EXC_RotSignal	1x0098	xxx	B76	xxx	0	1	Rotary heat exchanger – rotation signal (only with OJ-RHX2M)
Heat exchanger drive	Alarm	Standard	EXC_Overload	1x0099	xxx	B77	xxx	0	1	Rotary heat exchanger – torque overload (only with OJ-RHX2M)
Preheater coil, electric	Status	Standard	PH_PowReduce	1x0100	xxx	B93	xxx	0	1	Pre-heating coil - Output reduction, low air volume
Preheater coil, water	Status	Standard	PHFrostRegAct	1x0101	xxx	B89	xxx	0	1	Pre-heating coil - Relay for active heating/cooling
Preheater coil	Status	Standard	PHHeatRelay	1x0102	xxx	B91	xxx	0	1	Pre-heating coil - Frost protection active
Preheater coil, water	Alarm	Standard	PHFRzAlCool	1x0103	xxx	NA	NA	0	1	Pre-heating coil - Frost alarm, cooling
Preheater coil, electric	Alarm	Standard	PH_Overheat	1x0104	xxx	B92	xxx	0	1	Pre-heating coil - Overheating fault
Preheater coil, water	Alarm	Standard	PH_LJHWSensErr	1x0105	xxx	B94	xxx	0	1	Pre-heating coil - Return sensor - Sensor fault
Preheater coil, water	Status	Standard	PHHeatRelay1	1x0106	xxx	B95	xxx	0	1	Pre-heating coil - Heat relay 1
Preheater coil	Status	Standard	PHHeatRelay2	1x0107	xxx	B226	xxx	0	1	Pre-heating coil - Heat relay 2
Preheater coil, water	Status	Standard	PHHeatRelay3	1x0108	xxx	B276	xxx	0	1	Pre-heating coil - Heat relay 3 (HeatCool)
Preheater coil, water	Status	Standard	PH_PumpExer	1x0109	4.18	B90	4.18	0	1	Pre-heater Pump exercise active
Heat pump	Status	Standard	HP_CoolingActv	1x0110	xxx	B108	xxx	0	1	Changeover relay heatpump active
Heat pump	Status	Standard	HP_De-icingAct	1x0111	xxx	B109	xxx	0	1	Status bit De-icing of heatpump
Cooling coil	Status	Standard	NO_CSopRTStat	1x0112	xxx	B107	xxx	0	1	Cooling stopped by room temperature
Cooling coil	Status	Standard	NO_ChocovStat	1x0113	xxx	B106	xxx	0	1	Cooling over damper active
Heat exchanger	Alarm	Standard	AlNREXCall	1x0114	xxx	B104	xxx	0	1	Alarm - pressure transmitter not calibrated (los guard rotor heat exchanger)
Heat exchanger	Alarm	Standard	AlNREXCall	1x0115	xxx	B105	xxx	0	1	Alarm - rotor heat exchanger blocked by ice (high pressure over rotor wheel)
Heat exchanger	Alarm	Standard	AlNREXCall	1x0116	xxx	B110	xxx	0	1	Alarm - rotor heat exchanger blocked by dirt (high pressure over rotor wheel)
Heat exchanger	Alarm	Standard	AlNRedDustv	1x0117	xxx	B111	xxx	0	1	Alarm - Heat recovery efficiency below alarm limit
Heat exchanger	Alarm	Standard	AlNCEffToLow	1x0118	4.18	B95	4.18	0	1	Alarm - Heat recovery efficiency below alarm limit
Heating coil 2, Water	Alarm	Standard	HW2SensErr	1x0150	xxx	B86	xxx	0	1	Heating coil 2 - Return sensor - Sensor fault
Heating coil 2, Water	Alarm	Standard	HW2FrostAlr	1x0151	xxx	B87	xxx	0	1	Heating coil 2 - Frost alarm
Heating coil 2, Water	Status	Standard	HW2FrostReg	1x0152	xxx	B84	xxx	0	1	Heating coil 2 - Frost control active
Heating coil 2, Water	Status	Standard	HW2PumpExer	1x0153	xxx	B85	xxx	0	1	Heating coil 2 - Circulation pump, pump exercising active
Heater coil 2, Electric	Status	Standard	Heat_RE2	1x0154	xxx	B279	4.22	0	1	Heating relay 2 (ExtMod-Reserve)
Heating coil 2, Electric	Status	Standard	Heat_RE2	1x0155	xxx	B279	4.22	0	1	Heating relay 2 (ExtMod-Reserve)
Heating coil 2, Electric	Status	Standard	Heat_RE22	1x0156	xxx	B213	xxx	0	1	Heating relay 22 (ExtMod-Reserve)
Heating coil 2, Electric	Status	Standard	Heat_RE23	1x0157	xxx	B214	xxx	0	1	Heating relay 23 (ExtMod-Reserve)
Heating coil 2, Electric	Status	Standard	Heat_RE24	1x0159	xxx	B215	xxx	0	1	Heating relay 24 (ExtMod-Reserve)
Heating coil 2, Electric	Status	Standard	Heat_RE25	1x0160	xxx	B216	xxx	0	1	Heating relay 25 (ExtMod-Reserve)
Temp. sensor	Alarm	Standard	AdiOnTSENS1Err	1x0161	xxx	B79	xxx	0	1	Add on sensor 1 - Sensor fault
Temp. sensor	Alarm	Standard	AdiOnTSENS2Err	1x0162	xxx	B80	xxx	0	1	Add on sensor 2 - Sensor fault
Temp. sensor	Alarm	Standard	AdiOnTSENS3Err	1x0163	xxx	B81	xxx	0	1	Add on sensor 3 - Sensor fault
Temp. sensor	Alarm	Standard	AdiOnTSENS4Err	1x0164	xxx	B82	xxx	0	1	Add on sensor 4 - Sensor fault
Heat exchanger	Alarm	Standard	HW1StuckAlr	1x0165	xxx	NA	NA	0	1	Stuck alarm (digital input)
Humidifier	Alarm	Standard	AlNFBatEXC	1x0166	xxx	B100	xxx	0	1	Frost alarm limit-coupled coil (CallEXC)
Comb coil	Alarm	Standard	HumidAlInp	1x0169	xxx	NA	NA	0	1	Humidifier alarm status
Comb coil	Alarm	Standard	CombTSenErr	1x0170	xxx	NA	NA	0	1	Comb coil - Return sensor - Sensor fault
Comb coil	Alarm	Standard	CombTSenErr	1x0171	4.22	B279	4.22	0	1	Comb coil - Frost alarm
Comb coil	Status	Standard	CombTSenErr	1x0172	xxx	B280	4.22	0	1	Comb coil - Frost protection active
Comb coil	Status	Standard	CombPumpExer	1x0173	xxx	B281	4.22	0	1	Comb coil - Circulation pump, pump exercising active
Comb coil	Status	Standard	CombCoolRel	1x0174	xxx	B283	4.22	0	1	Comb coil - Cooling relay active
Comb coil 2	Status	Standard	CombCoolRel	1x0175	xxx	B283	4.22	0	1	Comb coil - Cooling relay active
Heating coil 2	Status	Standard	HW2DStuckAlr	1x0176	xxx	B113	xxx	0	1	Stuck alarm (digital input)
Heating coil 2	Status	Standard	HW2RedBkAct	1x0177	xxx	B115	xxx	0	1	Special customer code: Bldking: Heat2 in recirculation mode = Activated
Heating coil 2	Status	Standard	HW2FwChpAct	1x0178	xxx	B112	xxx	0	1	Special customer code: Flow changed caused Heat2 is activated
Damper, Recirculation	Status	Standard	InfRecFwChpStat	1x0179	xxx	B116	xxx	0	1	Special customer code: Status low flow during 100% recirculation
Heating coil 2	Status	Standard	RecCbsDmpAct	1x0180	xxx	B117	xxx	0	1	Special customer code: Recirculation damper is closed
AHU controller	Status	Standard	HT2DelimBkNo	1x0181	xxx	B114	xxx	0	1	Special customer code: Limiting Heat2 is not activated
Heating coil 1	Status	Standard	NO_CSopRTActv	1x0182	xxx	NA	NA	0	1	Special customer code: Outdoor air cooling: Stop activated
	Status	Standard	HWTRFActv	1x0183	xxx	B118	xxx	0	1	Max. raise-fall-time is activated

Damper, Smoke evac.	Alarm	Special	Alr_FireEvDmp	1x0184	xx	B1277	4.22	0	1	Alarm smoke evacuation damper is activated
Fan, Supply drive 2	Alarm	Special	EC2supMArVb	1x0185	xx	B1120	xx	0	1	QJEC-DV 2-supply air motor voltage low alarm
Fan, Supply drive 2	Alarm	Special	EC2supMArVh	1x0186	xx	B1121	xx	0	1	QJEC-DV 2-supply air motor voltage high alarm
Fan, Supply drive 2	Alarm	Special	EC2supMArHi	1x0187	xx	B1122	xx	0	1	QJEC-DV 2-supply air motor temperature alarm
Fan, Supply drive 2	Alarm	Special	EC2supMArTnp	1x0188	xx	B1123	xx	0	1	QJEC-DV 2-supply air motor temperature alarm
Fan, Supply drive 2	Alarm	Special	EC2supRdBlbk	1x0189	xx	B1124	xx	0	1	QJEC-DV 2-supply air motor alarm for blocked rotor
Fan, Supply drive 2	Alarm	Special	EC2supRdBlm	1x0190	xx	B1125	xx	0	1	QJEC-DV 2-supply air motor alarm for blocked rotor
Fan, Supply drive 2	Alarm	Special	EC2supRdHlUm	1x0191	xx	B1126	xx	0	1	QJEC-DV 2-supply air motor high current limit, shortcircuit protection
Fan, Extract drive 2	Alarm	Special	EC2extMArVb	1x0192	xx	B1128	xx	0	1	QJEC-DV 2-extract/exhaust motor voltage low alarm
Fan, Extract drive 2	Alarm	Special	EC2extMArVh	1x0193	xx	B1129	xx	0	1	QJEC-DV 2-extract/exhaust motor voltage high alarm
Fan, Extract drive 2	Alarm	Special	EC2extMArHi	1x0194	xx	B1130	xx	0	1	QJEC-DV 2-extract/exhaust motor high current limit alarm
Fan, Extract drive 2	Alarm	Special	EC2extMArTnp	1x0195	xx	B1131	xx	0	1	QJEC-DV 2-extract/exhaust motor temperature alarm
Fan, Extract drive 2	Alarm	Special	EC2extRdBlbk	1x0196	xx	B1132	xx	0	1	QJEC-DV 2-extract/exhaust motor alarm for phase error
Fan, Extract drive 2	Alarm	Special	EC2extRdBlm	1x0197	xx	B1133	xx	0	1	QJEC-DV 2-extract/exhaust motor alarm for blocked rotor
Fan, Extract drive 2	Alarm	Special	EC2extRdHlUm	1x0198	xx	B1134	xx	0	1	QJEC-DV 2-extract/exhaust motor high current limit, shortcircuit protection
Fan, Extract drive 2	Alarm	Special	EC2extRdHlUm	1x0199	xx	B1155	xx	0	1	TH-6202
Fan, Supply drive	Alarm	Standard	EC2supMArVb	1x0200	xx	B1138	xx	0	1	QJEC-DV-supply air motor voltage low alarm
Fan, Supply drive	Alarm	Standard	EC2supMArVh	1x0201	xx	B1139	xx	0	1	QJEC-DV-supply air motor voltage high alarm
Fan, Supply drive	Alarm	Standard	EC2supMArHi	1x0202	xx	B1140	xx	0	1	QJEC-DV-supply air motor high current limit alarm
Fan, Supply drive	Alarm	Standard	EC2supMArTnp	1x0203	xx	B1141	xx	0	1	QJEC-DV-supply air motor temperature alarm
Fan, Supply drive	Alarm	Standard	EC2supMArPhs	1x0204	xx	B1142	xx	0	1	QJEC-DV-supply air motor alarm for blocked rotor
Fan, Supply drive	Alarm	Standard	EC2supRdBlbk	1x0205	xx	B1144	xx	0	1	QJEC-DV-supply air motor high current limit, shortcircuit protection
Fan, Supply drive	Alarm	Standard	EC2supRdBlm	1x0206	xx	B1137	xx	0	1	QJEC-DV-supply air motor high current limit, shortcircuit protection
Fan, Supply drive	Alarm	Standard	EC2supRdHlUm	1x0207	xx	B1138	xx	0	1	QJEC-DV-supply air motor high current limit, shortcircuit protection
Fan, Extract drive	Alarm	Standard	EC2extMArVb	1x0208	xx	B1147	xx	0	1	QJEC-DV-extract/exhaust motor voltage low alarm
Fan, Extract drive	Alarm	Standard	EC2extMArVh	1x0209	xx	B1148	xx	0	1	QJEC-DV-extract/exhaust motor voltage high alarm
Fan, Extract drive	Alarm	Standard	EC2extMArHi	1x0210	xx	B1149	xx	0	1	QJEC-DV-extract/exhaust motor temperature alarm
Fan, Extract drive	Alarm	Standard	EC2extMArTnp	1x0211	xx	B1150	xx	0	1	QJEC-DV-extract/exhaust motor alarm for phase error
Fan, Extract drive	Alarm	Standard	EC2extRdBlbk	1x0212	xx	B1152	xx	0	1	QJEC-DV-extract/exhaust motor alarm for blocked rotor
Fan, Extract drive	Alarm	Standard	EC2extRdBlm	1x0213	xx	B1155	xx	0	1	QJEC-DV-extract/exhaust motor high current limit, shortcircuit protection
IO Extension module	Alarm	Standard	AlrExtIO1_Comm	1x0214	xx	B1158	xx	0	1	Extension IO-Module no. 1 - communication error
IO Extension module	Alarm	Standard	AlrExtIO2_Comm	1x0215	xx	B1159	xx	0	1	Extension IO-Module no. 2 - communication error
IO Extension module	Alarm	Standard	AlrExtIO3_Comm	1x0216	xx	B1160	xx	0	1	Extension IO-Module no. 3 - communication error
IO Extension module	Alarm	Standard	AlrExtIO4_Comm	1x0217	xx	B1161	xx	0	1	Extension IO-Module no. 4 - communication error
IO Extension module	Alarm	Standard	AlrExtIO5_Comm	1x0218	xx	B1162	xx	0	1	Extension IO-Module no. 5 - communication error
IO Extension module	Alarm	Standard	AlrExtIO6_Comm	1x0219	xx	B1163	xx	0	1	Extension IO-Module no. 6 - communication error
IO Extension module	Alarm	Standard	AlrExtIO7_Comm	1x0220	xx	B1164	xx	0	1	Extension IO-Module no. 7 - communication error
IO Extension module	Alarm	Standard	AlrExtIO8_Comm	1x0221	xx	B1165	xx	0	1	External IO-Module no. 8 - communication error
Temp. sensor	Alarm	Special	AlrAddOnSens1	1x0222	xx	B1167	xx	0	1	Addon sensor 1 - Sensor error
Temp. sensor	Alarm	Special	AlrAddOnSens2	1x0223	xx	B1168	xx	0	1	Addon sensor 2 - Sensor error
Temp. sensor	Alarm	Special	AlrAddOnSens3	1x0224	xx	B1169	xx	0	1	Addon sensor 3 - Sensor error
Temp. sensor	Alarm	Special	AlrAddOnSens4	1x0225	xx	B1170	xx	0	1	Addon sensor 4 - Sensor error
Cooling DX	Status	Special	ROHRCrMB	1x0226	xx	B1171	xx	0	1	Alarm - Sensor error
Combi coil	Status	Special	CmbCnCrMB	NA	xx	B1175	4.18	0	1	Special customer code functionality
Fan, Supply drive	Status	Standard	Cmb2CoolRel	1x0227	xx	B1173	xx	0	1	CombiCoil enable Heat/Cool ctrl via MB
Fan, Supply drive 2	Alarm	Standard	EC2supEEP_Err	1x0228	xx	B1178	xx	0	1	Combi coil: Cooling relay no. 2 active
Fan, Extract drive	Alarm	Special	EC2supEEP_Err	1x0229	xx	B1179	xx	0	1	Supply air fan EEPROM error
Fan, Extract drive 2	Alarm	Special	EC2extEEP_Err	1x0230	xx	B1180	xx	0	1	Supply air fan 2 EEPROM error
Fan, Extract drive 2	Alarm	Special	EC2extEEP_Err	1x0231	xx	B1181	xx	0	1	Exhaust air fan EEPROM error
Temp. sensor	Alarm	Special	TH-6202	1x0232	xx	B1182	xx	0	1	TH-6204 communication error
AHU controller	Alarm	Standard	AlrExtIO4_Comm	1x0233	xx	B1183	xx	0	1	Extension IO-Module no. 4 - communication error
Damper, Smoke evac.	Fire	Standard	AlrFireMainStop	1x0234	xx	B1203	xx	0	1	Fire main stop
Temp. Room	Alarm	Standard	AlrSmokeEvac	1x0235	xx	B1204	xx	0	1	Smoke evacuation activated
Temp. Out door	Alarm	Standard	BMSRoomTOOR	1x0236	xx	B1201	xx	0	1	BMS room sensor out of range
Fan, Smoke evac.	Alarm	Standard	BMSOutTOOR	1x0237	xx	B1202	xx	0	1	BMS outdoor temperature out of range
Damper, Fresh air	Status	Standard	AlrSmokeEvFan	1x0238	xx	B1205	xx	0	1	Smoke execution fan alarm
Damper, Supply air	Status	Standard	StatLineRel	1x0240	xx	B1206	xx	0	1	Output for outdoor air/exhaust air active
Damper, Recirculation	Status	Standard	StatSupRel	1x0241	xx	B1207	xx	0	1	Output for supply air damper active
Temp. Sensor	Alarm	Standard	EC2supSnsErr	1x0242	xx	B1208	xx	0	1	Exhaust air fan 2 EEPROM error
Preheater coil, water	Alarm	Standard	PHTempSnsErr	1x0243	xx	B1209	xx	0	1	TH-6204 communication error
Cooling coil	Alarm	Standard	CW_TSenseErr	1x0244	xx	B1210	xx	0	1	Low water pressure alarm
Heating coil 1, Electric	Status	Standard	Heat_RE26	1x0245	xx	B1211	xx	0	1	Fire main stop
Heating coil 2, Electric	Status	Standard	Comb_PumpRE	1x0246	xx	B1217	xx	0	1	Smoke evacuation activated
Heating coil 2, Electric	Status	Standard	EL2_OverHBac	1x0247	xx	B1218	xx	0	1	Output for recirculation damper active
Filter	Alarm	Standard	AlrBac2Contact	1x0248	xx	B1221	xx	0	1	Temperature sensor pre-heater - sensor error
Filter	Alarm	Standard	OutFIAMOn	1x0249	xx	B1222	xx	0	1	Cooling water supply temperature - sensor error
Filter	Alarm	Standard	OutFIAMOff	1x0250	xx	B1223	xx	0	1	Heating relay/26 (ExtMod-Reserve)
Filter	Alarm	Standard	OutFIAMOn	1x0251	xx	B1224	xx	0	1	Heating relay combi coil activated
Filter	Alarm	Standard	OutFIAMOff	1x0252	xx	B1225	xx	0	1	Electric coil 2: Relay stuck
Filter	Alarm	Standard	OutFIAMOn	1x0253	xx	B1226	xx	0	1	Alarm - Time is out for filter change supply air filter
Filter	Alarm	Standard	OutFIAMOff	1x0254	xx	B1227	xx	0	1	Alarm - Time is out for filter change exhaust air filter
Fan	Speed	Standard	ExtModPerIOD	1x0255	xx	B1227	xx	0	1	0 Filter Calibration error (press data) DYNAMICMODE ONLY
Fan, Supply drive	Alarm	Standard	FCAlSupPolIm	1x0256	xx	B1228	xx	0	1	0 Input for forced medium speed
Fan, Extract drive	Alarm	Standard	FCAlExpPolIm	1x0257	xx	B1229	xx	0	1	Alarm - Supply air fan, Power limit
Fan, Supply drive	Alarm	Standard	FCAlSupDVRBk	1x0258	xx	B1230	xx	0	1	Alarm - Exhaust air fan, Power limit
Fan, Extract drive	Alarm	Standard	FCAlExpDVRBk	1x0259	xx	B1231	xx	0	1	Alarm - Supply air fan DV-FC Rotor blocked
Fan, Supply drive 2	Alarm	Standard	DVArSupISbop	1x0260	xx	B1232	xx	0	1	Alarm - Exhaust air fan, DV-FC Rotor blocked
Fan, Extract drive 2	Alarm	Standard	DVArExpISbop	1x0261	xx	B1233	xx	0	1	Alarm - Supply air fan1, High Current Stop
Fan, Extract drive 2	Alarm	Standard	DVArExpISbop	1x0262	xx	B1234	xx	0	1	Alarm - Supply air fan2, High Current Stop
Combi coil	Status	Standard	CmbHeadState	1x0263	xx	B1235	xx	0	1	Alarm - Exhaust air fan1, High Current Stop
Preheater coil, electric	Status	Standard	CmbCooState	1x0264	xx	B1236	xx	0	1	Alarm - Exhaust air fan2, High Current Stop
Preheater coil, electric	Status	Standard	Pre_OverHBac	1x0265	xx	B1237	xx	0	1	Status combi coil = Heating
Fan, Supply drive	Alarm	Standard	AlrPhContact	1x0266	xx	B1238	xx	0	1	Status combi coil = Heating
Fan, Extract drive	Alarm	Standard	EC2supHIOAr	1x0267	xx	B1239	xx	0	1	Alarm = preheating pre-heater
Fan, Supply drive 2	Alarm	Standard	EC2supHIOAr	1x0268	xx	B1240	xx	0	1	Alarm = preheating pre-heater
Fan, Extract drive 2	Alarm	Standard	EC2supHIOAr	1x0269	xx	B1241	xx	0	1	Alarm QJEC-DV supply air = High IO current
CVM Mini Meter	Alarm	Standard	AlrCommCVMMini	1x0270	4.21	NA	4.21	0	1	Alarm QJEC-DV2 supply air = High IO current
CVM Mini Meter	Alarm	Standard	AlrCommCVMMini	1x0271	4.21	NA	4.21	0	1	Alarm QJEC-DV2 supply air = High IO current
Fan, supply	Alarm	Standard	AlrSupFanStop	1x0272	4.18	NA	4.18	0	1	Communication CVM Mini Meter
HMI display	Alarm	Standard	AlrCommHM20	1x0273	4.18	NA	4.18	0	1	Communication CVM Mini Meter
Damper, Smoke evac.	Alarm	Special	AlrSMRPassDmp	1x0273	4.18	B1247	4.18	0	1	B-Air SupFan is stopped
Damper, Smoke evac.	Alarm	Special	AlrSMRPassDmp	1x0273	4.18	B1247	4.18	0	1	A-Air Comm Error HM20
Damper, Smoke evac.	Alarm	Special	AlrSMRPassDmp	1x0273	4.18	B1247	4.18	0	1	Smoke Evac Damper not in position
Damper, Smoke evac.	Alarm	Special	AlrSMRPassDmp	1x0273	4.18	B1247	4.18	0	1	Smoke Bypass Damper not in position

Fan optimizer	Current value	Standard	FAN_SupPrctMeas	%	3/30014	xx	A112	xx	0	10000	Voltage on fan optimizer input, supply signal [1/100%]
Fan optimizer	Set point	Standard	FAN_ExtPrctMeas	%	3/30015	xx	A113	xx	0	30000	Voltage on fan optimizer input, extract signal [1/100%]
Fan	Current value	Standard	SupFC_MaxFlow	l/s	3/30016	xx	A114	xx	100	10000	Supply FC max. flow [l/s] or [m3/h] or [CFM] (Depending on the unit selection in the OJ-Air2Master)
Fan	Set point	Standard	ExtFC_MaxFlow	l/s	3/30017	xx	A115	xx	100	30000	Extract FC max. flow [l/s] or [m3/h] or [CFM] (Depending on the unit selection in the OJ-Air2Master)
Temp. Supply	Current value	Standard	SupTemp	°C	3/30018	xx	A116	xx	-4000	10000	Supply temperature [1/100°C]
Temp. Supply	Set point	Standard	ExtTemp	°C	3/30019	xx	A117	xx	-4000	10000	Extract temperature [1/100°C]
Temp. Extract	Current value	Standard	ExtTempRegSet	°C	3/30020	xx	A118	xx	-4000	10000	Setpoint for extract temperature controller [1/100°C]
Temp. Extract	Set point	Standard	ExtTempRegSet	°C	3/30021	xx	A119	xx	10	4000	Setpoint for extract temperature controller [1/100°C]
Temp. out door	Current value	Standard	RoomTemp	°C	3/30024	xx	A120	xx	-6000	10000	Actual outdoor temperature [1/100°C]
Temp. room	Current value	Standard	RoomTemp	°C	3/30025	xx	A121	xx	-4000	10000	Actual room temperature [1/100°C]
Temp. Exhaust	Current value	Standard	ExhaustTemp	°C	3/30026	xx	A122	xx	-4000	10000	Actual exhaust temperature [1/100°C]
AHU controller	Current value	Standard	TempRegMeas	°C	3/30027	xx	A123	xx	-4000	10000	Temp. recorded by actual temperature controller [1/100°C]
AHU controller	Set point	Standard	TempRegSet	°C	3/30028	xx	A124	xx	0	4000	Control value for actual temperature controller [1/100°C]
Heat exchanger coil 1, Water	Current value	Standard	HeatExCoil1Temp	°C	3/30029	xx	A125	xx	-4000	10000	Heat exchanger coil 1 temperature [1/100°C]
Heat exchanger coil 1, Water	Set point	Standard	HeatExCoil1Temp	°C	3/30030	xx	A126	xx	-4000	10000	Heat exchanger coil 1 temperature [1/100°C]
Filter	Current value	Standard	SupFiltPa	Pa	3/30031	xx	A127	xx	0	5000	Supply filter pressure [1/100Pa]
Filter	Set point	Standard	ExtFiltPa	Pa	3/30032	xx	A128	xx	0	5000	Extract filter pressure [1/100Pa]
Filer	Average value	Standard	FiltSupFlowAvr	Pa	3/30033	xx	NA	xx	0	2000	Average filter supply flow - for internal use only in connection to dynamic filter suvlance [1/100Pa]
Fan	Set point	Standard	SupMotorSet	%	3/30034	xx	A129	xx	0	10000	supply motor signal setpoint [1/100%]
Fan	Average value	Standard	FiltExFlowAvr	Pa	3/30035	xx	NA	xx	0	2000	Average filter exhaust flow - for internal use only in connection to dynamic filter suvlance [1/100Pa]
Fan	Set point	Standard	ExtMotorSet	%	3/30036	xx	A130	xx	0	10000	Extract motor signal setpoint [%]
Filer	Average value	Standard	FiltSupAvr	Pa	3/30037	xx	NA	xx	0	3000	Average supply pressure [1/100Pa/30]
Filer	Set point	Standard	FiltSupAvr	Pa	3/30038	xx	NA	xx	0	3000	Average supply pressure [1/100Pa/30]
Filter	Set point	Standard	FiltSupAirPa	Pa	3/30039	xx	A131	xx	0	100	ONLY IN DYNAMIC MODE (70° IS STATIC MODE)
Filter	Set point	Standard	EfficiencyTemp	°C	3/30040	5.07	A132	5.07	0	100	Current EfficiencyTemp [1/100°C]
Temp. heat pump	Current value	Special	HP_OutCoilTemp	°C	3/30041	xx	NA	NA	-6000	10000	Actual outdoor temperature near outdoor heat pump pants [1/100°C]
Heat exchanger	Current value	Standard	EXCActualEff	%	3/30042	xx	A1108	xx	0	10000	Heat exchanger efficiency [1/100%]
Fan, ATV drive	Alarm	Special	AnSupFCType		3/30043	xx	A1106	xx	0	30000	Supply ATV frequency converter - Actual FC type
Fan, ATV drive	Alarm	Special	AnExtFCType		3/30044	xx	A1107	xx	0	30000	Exhaust ATV frequency converter - Actual FC type
Filer	Set point	Standard	FiltSup2AirPa	Pa	3/30045	4.18		xx	0	100	Filter pressure for alarm-limit at actual flow [Pa]
Filer	Set point	Standard	FiltEx2AirPa	Pa	3/30046	4.18		xx	0	100	Filter pressure for alarm-limit at actual flow [Pa]
Filer	Average value	Standard	ExtFilt2AirAvr	Pa	3/30047	5.07	A1130	4.18	0	5000	DYNAMICMODE ONLY (para in staticmode)
Filer	Average value	Standard	FiltExAirPa	Pa	3/30048	4.18	A132	5.07	0	100	Extract filter monitor max. alarm limit [Pa]
Filter	Set point	Standard	FiltWtmpCmpOut	Pa	3/30049	4.18	A131	4.18	0	5000	ONLY IN DYNAMIC MODE (70° IS STATIC MODE)
AHU controller	Set point	Standard	SWTC_ActSetOils	°C	3/30050	xx	A133	xx	0	10000	Supply 2 FilterPressure (Avr-Meas) [1/100Pa]
AHU controller	Set point	Standard	HeatExCoil1Power	W	3/30051	xx	A134	xx	-1000	30000	Temp. compensated flow setpoint percentage [1/100%]
Heat exchanger	Set point	Standard	HeatExCoil2Power	W	3/30052	xx	A135	xx	0	10000	Summer/Night time in Heat Demand [Pa]
Heating	Set point	Standard	CoolPower	%	3/30053	xx	A136	xx	0	10000	Heating power [1/100%]
Cooling coil	Set point	Standard	CoolPower	%	3/30055	xx	A137	xx	0	10000	Actual heating power [1/100%]
Cooling coil	Set point	Standard	CoolFwForcePw	%	3/30056	xx	A138	xx	0	10000	Cooling controller power [1/100%]
Cooling, DX	Set point	Standard	CoolVrnAlarm	%	3/30057	xx	A139	xx	0	10000	Cooling forced flow power [1/100%]
Cooling, DX	Current value	Standard	CoolVrnAlarm	%	3/30058	xx	A140	xx	0	10000	Cooling alarm 1 transducer signal [1/100%]
Cooling, DX	Current value	Standard	CoolVrnAlarm	%	3/30059	xx	A141	xx	0	10000	Cooling alarm 2 transducer signal [1/100%]
Cooling, DX	Current value	Standard	CoolVrnAlarm	%	3/30060	xx	A142	xx	0	10000	Cooling alarm 3 transducer signal [1/100%]
Cooling, DX	Current value	Standard	CoolVrnAlarm	%	3/30061	xx	A143	xx	0	10000	Cooling alarm 4 transducer signal [1/100%]
Cooling, DX	Current value	Standard	C.LoPress1Bar	Bar	3/30062	xx	A144	xx	0	10000	Actual pressure sensor 1 [1/100 bar]
Cooling, DX	Current value	Standard	C.LoPress2Bar	Bar	3/30063	xx	A145	xx	0	10000	Actual high pressure sensor 1 [1/100 bar]
Cooling, DX	Current value	Standard	C.HPress2Bar	Bar	3/30064	xx	A146	xx	0	10000	Actual low pressure sensor 2 [1/100 bar]
Heater coil 2	Set point	Standard	Heat2Power	%	3/30065	xx	A147	xx	0	10000	Actual high pressure sensor 2 [1/100 bar]
Fan, Supply drive	Current value	Standard	FCSupMtrType		3/30070	xx	A1103	xx	0	256	Heating 2 - Regulator power [1/100%]
Fan, Supply drive	SW version	Standard	FCSupMtrFC_SW		3/30071	xx	A148	xx	0	1000	Supply motor type (only with OJ-FC)
Fan, Supply drive	SW version	Standard	FCSupMtrFC_SW		3/30072	xx	A149	xx	0	1000	Supply motor software version [1/100] (only with OJ-FC)
Fan, Supply drive	Current value	Standard	FCSupMtrH2Out	Hz	3/30073	xx	A150	xx	0	10000	Supply motor IO card software version [1/100] (only with OJ-FC)
Fan, Supply drive	Current value	Standard	FCSupMtrH2Out	Hz	3/30074	xx	A151	xx	0	10000	Supply motor frequency output [1/100 Hz] (only with OJ-FC)
Fan, Supply drive	Current value	Standard	FCSupMtrOut	W	3/30075	xx	A152	xx	0	10000	Supply motor frequency output [1/100 Hz] (only with OJ-FC)
Fan, Supply drive	Set point	Standard	FCSupMtrPwOut	W	3/30076	xx	A153	xx	0	30000	Supply motor actual current output [mA] (only with OJ-FC)
Fan, Supply drive	Current value	Standard	FCSupMtrPwOut	W	3/30077	xx	A154	xx	0	6000	Supply motor actual power output [Watt] (only with OJ-FC)
Fan, Supply drive	Current value	Standard	SupSFP	J/m	3/30078	xx	A155	xx	0	10000	Supply motor setpoint [%]
Fan, Supply drive	Current value	Standard	SupSFP	J/m	3/30079	5.07	A156	5.07	0	10000	Specific fan power (SFP), supply [W.s/m3 = J/m3] (only with OJ-FC)
Fan, Extract drive	Current value	Standard	FCExtMtrType		3/30080	xx	A157	xx	0	256	Supply SFP EC-2 [W.s/m3 same as J/m3]
Fan, Extract drive	SW version	Standard	FCExtMtrFC_SW		3/30081	xx	A158	xx	0	1000	Extract motor type (only with OJ-FC)
Fan, Extract drive	SW version	Standard	FCExtMtrFC_SW		3/30082	xx	A159	xx	0	1000	Extract motor software version [1/100] (only with OJ-FC)
Fan, Extract drive	Current value	Standard	FCExtMtrH2Out	Hz	3/30083	xx	A160	xx	0	10000	Extract motor frequency output [1/100 Hz] (only with OJ-FC)
Fan, Extract drive	Current value	Standard	FCExtMtrH2Out	Hz	3/30084	xx	A161	xx	0	10000	Extract motor output percentage [1/100%] (only with OJ-FC)
Fan, Extract drive	Current value	Standard	FCExtMtrOut	W	3/30085	xx	A162	xx	0	30000	Extract motor actual frequency output [1/100 Hz] (only with OJ-FC)
Fan, Extract drive	Set point	Standard	FCExtMtrPwOut	W	3/30086	xx	A163	xx	0	6000	Extract motor actual current output [mA] (only with OJ-FC)
Fan, Extract drive	Current value	Standard	FCExtMtrPwOut	W	3/30087	xx	A164	xx	0	10000	Extract motor actual power output [Watt] (only with OJ-FC)
Fan, Extract drive	Current value	Standard	EXSFP	J/m	3/30088	xx	A165	xx	0	10000	Extract motor output setpoint [1/100%]
Heat exchanger drive	Current value	Standard	EXSFP	J/m	3/30089	5.07	A166	5.07	0	10000	Specific fan power (SFP), extract [W.s/m3 = J/m3] (only with OJ-FC)
Heat exchanger drive	Set point	Standard	EXC_Type		3/30090	xx	A167	xx	0	1000	Extraction SFP [W.s/m3 same as J/m3]
Heat exchanger drive	Current value	Standard	EXC_Type		3/30091	xx	A168	xx	0	1000	Rotary heat exchanger - motor type (only with OJ RHX2M)
Heat exchanger drive	Current value	Standard	EXC_PrcOut	%	3/30092	xx	A169	xx	0	10000	Rotary heat exchanger - speed output [1/100 rpm]
Heat exchanger drive	Current value	Standard	EXC_RpmOut	rpm	3/30093	xx	A170	xx	0	20000	Rotary heat exchanger - speed output [1/100 rpm]
Heat exchanger drive	Current value	Standard	EXC_Iout	W	3/30094	xx	A171	xx	0	10000	Rotary heat exchanger - actual output [mA] (only with OJ RHX2M)
Heat exchanger drive	Current value	Standard	EXC_Power	W	3/30095	xx	A172	xx	0	100	Rotary heat exchanger - output power [W] (only with OJ RHX2M)
Heat exchanger drive	Current value	Standard	EXC_DrftDays	Day	3/30096	xx	A173	xx	0	32000	Rotary heat exchanger - days of operation (only with OJ RHX2M)
Heat exchanger drive	Set point	Standard	EXC_PrcSet	%	3/30097	xx	A174	xx	0	10000	Rotary heat exchanger - percentage setpoint [1/100%] (only with OJ RHX2M)
Heat exchanger drive	Set point	Standard	FuISFPHigh	J/m	3/30098	5.07	A175	5.07	0	10000	Combined SFP [W.s/m3 same as J/m3]
Heat exchanger drive	Set point	Standard	FuISFPHigh	J/m	3/30099	5.07	A176	5.07	0	10000	Combined SFP [W.s/m3 same as J/m3]
IO Extension module	SW version	Standard	EXTM1_SW_Ver		3/30100	xx	A177	xx	0	10000	Extension module 2 software version [1/100]
IO Extension module	Current value	Standard	EXTM2_SW_Ver		3/30101	xx	A178	xx	0	10000	Actual temperature of pre-heating coil [1/100°C]
Preheater coil	Current value	Standard	PHWMTemp	°C	3/30102	xx	A1105	xx	-4000	10000	Actual output of pre-heating coil [1/100°C]
Preheater coil	Set point	Standard	PH_HeatPower	%	3/30103	xx	A1104	xx	0	10000	Actual day of the week (0=Mon, 6=Sun)
AHU controller	Time	Standard	TimeSwWeekDay		3/30110	xx	A176	xx	0	6	Extended operation, remaining number of days
AHU controller	Status	Standard	ExtDrDaysLeft		3/30111	xx	A177	xx	0	6	

AHU controller	Status	Standard	ExtDrMinLeft	Min	Pa	300112	xxx	A178	xxx	0	1439	Extended operation, remaining number of minutes
Heat pump	Current value	Special	HP_CoUpMeas			300115	xxx	A110	xxx	0	5000	Actual pressure at the heat pump outdoor coil.
AHU controller	Alarm	Standard	Air_Released00			300120	xxx	A179	xxx	0	100	Stack for active alarms (0 indicates end of stack)
AHU controller	Alarm	Standard	Air_Released01			300121	xxx	A80	xxx	0	100	Stack for active alarms (0 indicates end of stack)
AHU controller	Alarm	Standard	Air_Released02			300122	xxx	A81	xxx	0	100	Stack for active alarms (0 indicates end of stack)
AHU controller	Alarm	Standard	Air_Released03			300123	xxx	A82	xxx	0	100	Stack for active alarms (0 indicates end of stack)
AHU controller	Alarm	Standard	Air_Released04			300124	xxx	A83	xxx	0	100	Stack for active alarms (0 indicates end of stack)
AHU controller	Alarm	Standard	Air_Released05			300125	xxx	A84	xxx	0	100	Stack for active alarms (0 indicates end of stack)
AHU controller	Alarm	Standard	Air_Released06			300126	xxx	A85	xxx	0	100	Stack for active alarms (0 indicates end of stack)
AHU controller	Alarm	Standard	Air_Released07			300127	xxx	A86	xxx	0	100	Stack for active alarms (0 indicates end of stack)
AHU controller	Alarm	Standard	Air_Released08			300128	xxx	A87	xxx	0	100	Stack for active alarms (0 indicates end of stack)
AHU controller	Alarm	Standard	Air_Released09			300129	xxx	A88	xxx	0	100	Stack for active alarms (0 indicates end of stack)
AHU controller	Alarm	Standard	Air_Released10			300130	xxx	A89	xxx	0	100	Stack for active alarms (0 indicates end of stack)
AHU controller	Alarm	Standard	Air_Released11			300131	xxx	A90	xxx	0	100	Stack for active alarms (0 indicates end of stack)
AHU controller	Alarm	Standard	Air_Released12			300132	xxx	A91	xxx	0	100	Stack for active alarms (0 indicates end of stack)
AHU controller	Alarm	Standard	Air_Released13			300133	xxx	A92	xxx	0	100	Stack for active alarms (0 indicates end of stack)
AHU controller	Alarm	Standard	Air_Released14			300134	xxx	A93	xxx	0	100	Stack for active alarms (0 indicates end of stack)
AHU controller	Alarm	Standard	Air_Released15			300135	xxx	A94	xxx	0	100	Stack for active alarms (0 indicates end of stack)
Humidity	Current value	Standard	Humid_AcRHOut			300138	xxx	A263	6.10	0	100	Actual % rel. Humidity Outdoor
AHU controller	Current value	Standard	Humid_AcRHEXh			300139	xxx	A264	6.10	0	100	Actual % rel. Humidity Exhaust
HMI display	SW version	Standard	MasterSW_Ver			300140	xxx	A95	xxx	0	30000	Master software version [1/100]
Dampier, Fire	Alarm	Standard	AirFireDmpNOCs			300142	xxx	A96	xxx	0	30000	Alarm, Fire dampier not closed
Dampier, Fire	Alarm	Standard	AirFireDmpNOCs			300143	xxx	A97	xxx	0	1	Alarm, Fire dampier not open
Dampier, Fire	Alarm	Standard	FireDmpNOCs			300144	xxx	A98	xxx	0	1	Alarm, Fire dampier not open
Stacking, DX	Status	Standard	DX_OnTimeRE1	Sec		300145	xxx	NA	NA	0	600	Timer for DX-Cool RE-1 ON-Period [sec] (ExtMod-Reserve)
Stacking, DX	Status	Standard	DX_OnTimeRE2	Sec		300146	xxx	NA	NA	0	600	Timer for DX-Cool RE-2 ON-Period [sec] (ExtMod-Reserve)
Stacking, DX	Status	Standard	DX_OnTimeRE3	Sec		300147	xxx	NA	NA	0	600	Timer for DX-Cool RE-3 ON-Period [sec] (ExtMod-Reserve)
Stacking, DX	Status	Standard	DX_OnTimeRE4	Sec		300148	xxx	NA	NA	0	600	Counter for DX-Cool RE-4 ON-Period [sec] (ExtMod-Reserve)
Stacking, DX	Status	Standard	DX_RestartCnt1			300149	xxx	NA	NA	0	60	Counter for DX-Cool RE-1 starts per hour (ExtMod-Reserve)
Heating coil 2, Water	Current value	Standard	HW2BatTemp	°C		300150	xxx	NA	NA	-4000	10000	Counter for DX-Cool RE-3 starts per hour (ExtMod-Reserve)
Cooling, DX	Status	Standard	DX_RestartCnt3			300151	xxx	NA	NA	0	60	Counter for DX-Cool RE-4 starts per hour (ExtMod-Reserve)
Cooling, DX	Status	Standard	DX_RestartCnt4			300152	xxx	NA	NA	0	3600	Timer 1 for min. restart period [sec]
Cooling, DX	Status	Standard	DX_RestartCnt1	Sec		300153	xxx	NA	NA	0	3600	Timer 2 for min. restart period [sec]
Cooling, DX	Status	Standard	DX_RestartCnt2	Sec		300154	xxx	NA	NA	0	3600	Timer 3 for min. restart period [sec]
Cooling, DX	Status	Standard	DX_RestartCnt3	Sec		300155	xxx	NA	NA	0	3600	Timer 4 for min. restart period [sec]
Filter	Current value	Standard	FILSupPrsStat	%		300156	xxx	NA	NA	0	10000	Filter actual alarmstatus for sup-filter [1/100%]
Filter	Current value	Standard	FILSupPrsStat	%		300157	xxx	NA	NA	0	10000	Filter actual alarmstatus for ext-filter [1/100%]
Filter	Current value	Standard	FILSupNewPa	Pa		300159	xxx	NA	NA	0	100	Filter pressure for new-filter at actual flow [Pa]
Temp. sensor	Current value	Standard	FIREUpNewPa	Pa		300160	xxx	NA	NA	0	100	Filter pressure for new-filter at actual flow [Pa]
Temp. sensor	Current value	Special	AdtOnH1Sensor1	°C		300161	xxx	A97	xxx	-4000	10000	Add on sensor 1 [1/100°C]
Temp. sensor	Current value	Special	AdtOnH2Sensor2	°C		300162	xxx	A98	xxx	-4000	10000	Add on sensor 2 [1/100°C]
Temp. sensor	Current value	Special	AdtOnH3Sensor3	°C		300163	xxx	A99	xxx	-4000	10000	Add on sensor 3 [1/100°C]
Fan	Current value	Standard	AdtOnH4Sensor4	°C		300164	xxx	A100	xxx	-4000	10000	Add on sensor 4 [1/100°C]
Fan	Current value	Standard	MfFanSupMin	%		NA	xxx	A101	xxx	0	10000	0-10 VDC signal to supply motor
Fan	Set point	Standard	MfFanExtMin	%		NA	xxx	A102	xxx	0	10000	0-10 VDC signal to extract motor
Cooling, DX	Set point	Special	ROHCondPower	%		300165	xxx	NA	NA	0	10000	Only special customer code: Step-up valve - Output [1/100%]
Cooling, DX	Set point	Special	ROHCondOutVDC	V		300166	xxx	NA	NA	0	10000	Only special customer code: Step-up valve - Voltage [1/1000 V]
Cooling, DX	Set point	Special	ROHShutPower	%		300167	xxx	NA	NA	0	10000	Only special customer code: Condenser coil - Output [1/100%]
Cooling, DX	Set point	Special	ROHShutOutVDC	V		300168	xxx	NA	NA	0	10000	Only special customer code: Shunt valve - Voltage [1/1000 V]
Humidifier	Current value	Standard	Humid_OutVDC	V		300169	xxx	NA	NA	0	10000	Output to Steam Humidifier [1/1000 V]
Humidity	Current value	Special	Humid_AcRHSup	%		300170	xxx	A103	xxx	0	10000	Actual % rel. Humidity Supply duct [1/100%rh]
Humidity	Current value	Special	Humid_AcRHEXsup	%		300171	xxx	A104	xxx	0	10000	Actual % rel. Humidity Exhaust duct [1/100%rh]
Heating coil 12	Set point	Special	HW12_VDCOut	mV		NA	xxx	A109	xxx	0	10000	Only special customer code: Heat coil 1, step2 output, (1,2) VDC out
Dampier, Recirculation	Status	Special	RecAFewAct			300172	xxx	A111	xxx	0	2	Only special customer code: Actual status change flow recirc. - 0=No change, 1=Low to high, 2=High to low
Heating coil 2	Status	Special	RecCstTimer	Sec		300173	xxx	A112	xxx	0	7200	Only special customer code: Actual status timer for lukket recirculating [Sec]
Heat exchanger	Current value	Special	REXCPressAvg	Sec		300174	xxx	NA	NA	0	2000	Only special customer code: Timer delayed Heat2 [Sec]
Comb coil	Set point	Standard	CombVDC_Out	V		300175	xxx	NA	NA	0	10000	Only special customer code: Actual press. drop over rotary exch. in exhaust air [Pa]
Comb coil	Set point	Standard	CombHeatPow	W		300177	xxx	A113	xxx	0	10000	Comb coil VDC-Signal [1/1000 V]
Comb coil	Current value	Standard	CombCoolPow	W		300178	xxx	A114	xxx	0	10000	Comb coil %Signal heating [1/100 %]
Fan, Supply drive 2	Current value	Special	EC2supMfType	%		300179	xxx	A115	xxx	0	10000	Comb coil %Signal heating [1/100 %]
Fan, Supply drive 2	SW version	Special	EC2supMEC_SW			300180	xxx	NA	NA	0	256	Only special customer code: Elase CoolPower [1/100 %]
Fan, Supply drive 2	Current value	Special	EC2supBoot_SW			300181	xxx	NA	NA	0	1000	Only special customer code: OJEC-DV-2-supply/Supply air motor Software Ver [1/100]
Fan, Supply drive 2	Current value	Special	EC2supMfPrCoUt	%		300182	xxx	NA	NA	0	10000	Only special customer code: OJEC-DV-2-supply/Supply air motor Boot Software Ver [1/100]
Fan, Supply drive 2	Current value	Special	EC2supMRPMOut	RPM		300183	xxx	NA	NA	0	10000	Only special customer code: OJEC-DV-2-supply/Supply air motor percent output [1/100%]
Fan, Supply drive 2	Current value	Special	EC2supMfPrCoUt	RPM		300184	xxx	NA	NA	0	10000	Only special customer code: OJEC-DV-2-supply/Supply air motor percent output [1/100%]
Fan, Supply drive 2	Current value	Special	EC2supMfPrCoUt	W		300185	xxx	NA	NA	0	30000	Only special customer code: OJEC-DV-2-supply/Supply air motor actual current output [mA]
Fan, Supply drive 2	Current value	Special	EC2supDriftMin	Min		300186	xxx	NA	NA	0	7000	Only special customer code: OJEC-DV-2-supply/Supply air motor actual power output [Watt]
Fan, Supply drive 2	Current value	Special	EC2supDriftDay	Day		300187	xxx	NA	NA	0	1440	Only special customer code: OJEC-DV-2-supply/Supply air motor actual running time [minutes]
Fan, Extract drive 2	Set point	Special	EC2supMfPrCoSet	%		300188	xxx	NA	NA	0	30000	Only special customer code: OJEC-DV-2-supply/Supply air motor actual running time [days]
Fan, Extract drive 2	Current value	Special	EC2supMfPrCoSet	%		300189	xxx	NA	NA	0	10000	Only special customer code: OJEC-DV-2-supply/Supply air motor setpoint [1/100%]
Fan, Extract drive 2	SW version	Special	EC2supMEC_SW			300190	xxx	NA	NA	0	256	Only special customer code: OJEC-DV-2-Extract/Exhaust air motor Software Ver [1/100]
Fan, Extract drive 2	Current value	Special	EC2supMfPrCoUt	%		300191	xxx	NA	NA	0	10000	Only special customer code: OJEC-DV-2-Extract/Exhaust air motor Boot Software Ver [1/100]
Fan, Extract drive 2	Current value	Special	EC2supMRPMOut	RPM		300192	xxx	NA	NA	0	10000	Only special customer code: OJEC-DV-2-Extract/Exhaust air motor percent output [1/100%]
Fan, Extract drive 2	Current value	Special	EC2supMfPrCoUt	RPM		300193	xxx	NA	NA	0	10000	Only special customer code: OJEC-DV-2-Extract/Exhaust air motor percent output [1/100%]
Fan, Extract drive 2	Current value	Special	EC2supMfPrCoUt	W		300194	xxx	NA	NA	0	30000	Only special customer code: OJEC-DV-2-Extract/Exhaust air motor actual current output [mA]
Fan, Extract drive 2	Current value	Special	EC2supDriftMin	Min		300195	xxx	NA	NA	0	7000	Only special customer code: OJEC-DV-2-Extract/Exhaust air motor actual power output [Watt]
Fan, Extract drive 2	Current value	Special	EC2supDriftDay	Day		300196	xxx	NA	NA	0	1440	Only special customer code: OJEC-DV-2-Extract/Exhaust air motor actual running time [minutes]
Fan, Extract drive 2	Set point	Special	EC2supMfPrCoSet	%		300197	xxx	NA	NA	0	30000	Only special customer code: OJEC-DV-2-Extract/Exhaust air motor actual running time [days]
Fan, Supply drive	Current value	Standard	ECsupMfPrCoSet	%		300198	xxx	NA	NA	0	10000	Only special customer code: OJEC-DV-2-Extract/Exhaust air motor setpoint [1/100%]
Fan, Supply drive	SW version	Standard	ECsupMEC_SW			300199	xxx	NA	NA	0	256	Only special customer code: OJEC-DV-2-Extract/Exhaust air motor Software Ver [1/100]
Fan, Supply drive	Current value	Standard	ECsupBoot_SW			300200	xxx	NA	NA	0	1000	Only special customer code: OJEC-DV-2-Extract/Exhaust air motor Boot Software Ver [1/100]
Fan, Supply drive	Current value	Standard	ECsupMRPMOut	RPM		300201	xxx	NA	NA	0	10000	Only special customer code: OJEC-DV-supply/Supply air motor Boot Software Ver [1/100]
Fan, Supply drive	Current value	Standard	ECsupMfPrCoUt	RPM		300202	xxx	NA	NA	0	10000	Only special customer code: OJEC-DV-supply/Supply air motor percent output [1/100%]
Fan, Supply drive	Current value	Standard	ECsupMfPrCoUt	RPM		300203	xxx	NA	NA	0	10000	Only special customer code: OJEC-DV-supply/Supply air motor percent output [1/100%]
Fan, Supply drive	Current value	Standard	ECsupMfPrCoUt	W		300204	xxx	NA	NA	0	30000	Only special customer code: OJEC-DV-supply/Supply air motor actual current output [mA]
Fan, Supply drive	Current value	Standard	ECsupMfPrCoUt	W		300205	xxx	NA	NA	0	7000	Only special customer code: OJEC-DV-supply/Supply air motor actual power output [Watt]
Fan, Supply drive	Current value	Standard	ECsupDriftMin	Min		300207	xxx	NA	NA	0	1440	Only special customer code: OJEC-DV-supply/Supply air motor actual running time [minutes]

Fan, Supply drive	Standard	Current value	Standard	ECsupDriftDay	Day	3x0208	xxx	NA	NA	0	30000	QJEC-DV-supply/Supply air motor actual running time [days]
Fan, Supply drive	Standard	Set point	Standard	ECsupMtrPrsSet	%	3x0209	xxx	NA	NA	0	10000	QJEC-DV-supply/Supply air motor setpoint [1/100%]
Fan, Extract drive	Standard	Current value	Standard	ECexBoot_SW	%	3x0210	xxx	NA	NA	0	1000	QJEC-DV-Extradt/Exhaust air motor Boot Software Ver [1/100]
Fan, Extract drive	Standard	Current value	Standard	ECexMtrPrsOut	%	3x0211	xxx	NA	NA	0	10000	QJEC-DV-Extradt/Exhaust air motor present udgung [1/100%]
Fan, Extract drive	Standard	Current value	Standard	ECexMtrRPMOut	RPM	3x0212	xxx	NA	NA	0	10000	QJEC-DV-Extradt/Exhaust air motor actual RPM [RPM]
Fan, Extract drive	Standard	Current value	Standard	ECexMtrRPMOut	RPM	3x0213	xxx	NA	NA	0	30000	QJEC-DV-Extradt/Exhaust air motor actual current output [1/1000mA]
Fan, Extract drive	Standard	Current value	Standard	ECexMtrPwrOut	W	3x0214	xxx	NA	NA	0	7000	QJEC-DV-Extradt/Exhaust air motor actual power output [Watt]
Fan, Extract drive	Standard	Current value	Standard	ECexDriftMin	Min	3x0215	xxx	NA	NA	0	1440	QJEC-DV-Extradt/Exhaust air motor actual running time [minutes]
Fan, Extract drive	Standard	Current value	Standard	ECexDriftDay	Day	3x0216	xxx	NA	NA	0	30000	QJEC-DV-Extradt/Exhaust air motor actual running time [days]
Fan, Extract drive	Standard	Current value	Standard	ECexMtrPrsSet	%	3x0217	xxx	NA	NA	0	10000	QJEC-DV-Extradt/Exhaust air motor setpoint [1/100%]
Fan, Extract drive	Standard	Current value	Standard	ECexMtrType		3x0218	xxx	NA	NA	0	256	QJEC-DV-Extradt/Exhaust air motor Type
Fan, Extract drive	Standard	Current value	Standard	ECexMtrFC_SW		3x0219	xxx	NA	NA	0	10000	QJEC-DV-Extradt/Exhaust air motor Software Ver [1/100]
Temp. out door	Standard	Current value	Standard	ECexMtrType		3x0220	xxx	A0234	507	-4000	10000	Only special customer code: Actual supply supply temperature2 [1/100°C]
Temp. out door	Standard	Current value	Standard	ECexMtrType		3x0221	xxx	A1118	xxx	-4000	10000	External outdoor temperature sensor [1/100 °C]
Temp. out door	Standard	Current value	Standard	ECexMtrType		3x0222	xxx	A1119	xxx	-4000	10000	Temperature after pre-heating coil [1/100 °C]
Temp. out door	Standard	Current value	Standard	ECexMtrType		3x0223	xxx	A1120	xxx	-4000	10000	Damper position after pre-heating coil [1/100 %]
Temp. out door	Standard	Current value	Standard	ECexMtrType		3x0224	xxx	A1121	xxx	0	10000	Damper position recirculation [1/100 %]
Temp. out door	Standard	Current value	Standard	ECexMtrType		3x0225	xxx	A1122	xxx	0	10000	Damper position reekulation [1/100 %]
Temp. out door	Standard	Current value	Standard	ECexMtrType		3x0226	xxx	A1123	xxx	0	10000	Output voltage cooling valve2 (only combi coil) [1/1000 V]
Temp. out door	Standard	Current value	Special	AtExePwr	W	3x0227	xxx	A1116	xxx	0	30000	ATV extract air actual power [1/100 kW]
Temp. out door	Standard	Current value	Special	AtExePwr	W	3x0228	xxx	A1117	xxx	0	30000	ATV supply air actual power [1/100 kW]
Temp. out door	Standard	Current value	Standard	OutDooSenTemp	kW	3x0229	5.07	A0233	507	0	4000	Current Outdoor Temp [1/100°C]
Temp. out door	Standard	Status	Standard	OutFReatDay		3x0230	xxx	A1124	xxx	0	366	Days until timer alarm from the outdoor filter
Temp. out door	Standard	Current value	Standard	ExFReatTemp	°C	3x0231	xxx	A1125	xxx	0	366	Days until timer alarm from the extract filter
Temp. out door	Standard	Current value	Standard	ExFReatHum	%	3x0232	xxx	A1126	xxx	-4000	10000	Combi coil - Actual return temperature [1/100°C]
Temp. out door	Standard	Status	Standard	SupFReatDay		3x0233	4.18	NA	NA	0	366	Supply filter 2: Restime before change filter alarm will be activated
Temp. out door	Standard	Status	Standard	ExFIRestDay		3x0234	4.18	NA	NA	0	366	Extract filter 2: Restime before change filter alarm will be activated
Temp. out door	Standard	Status	Standard	Zone		3x0235	4.19	A1132	4.19	0	4	Number of Detected ZonelModules
Temp. out door	Standard	Status	Standard	Zone		3x0236	4.19	A1133	4.19	0	7	ZoneControl Operation Mode
Temp. out door	Standard	Status	Standard	Zone		3x0237	4.19	A1134	4.19	0	2	ZoneModule 1 - Status: 0-No active alarm; 1=A-alarm active; 2=B-alarm active
Temp. out door	Standard	Status	Standard	Zone		3x0238	4.19	A1135	4.19	0	0	ZoneModule 1 - VAV Supply 1 Actuator Setpoint [scale depending on the connected actuator]
Temp. out door	Standard	Status	Standard	Zone		3x0239	4.19	A1136	4.19	0	0	ZoneModule 1 - VAV Supply 1 Actuator Flow [scale depending on the connected actuator]
Temp. out door	Standard	Status	Standard	Zone		3x0240	4.19	A1137	4.19	0	0	ZoneModule 1 - VAV Supply 2 Actuator Setpoint [scale depending on the connected actuator]
Temp. out door	Standard	Status	Standard	Zone		3x0241	4.19	A1138	4.19	0	0	ZoneModule 1 - VAV Supply 2 Actuator Flow [scale depending on the connected actuator]
Temp. out door	Standard	Status	Standard	Zone		3x0242	4.19	A1139	4.19	0	0	ZoneModule 1 - VAV Extract Actuator Setpoint [scale depending on the connected actuator]
Temp. out door	Standard	Status	Standard	Zone		3x0243	4.19	A1140	4.19	0	0	ZoneModule 1 - VAV Extract Actuator Flow [scale depending on the connected actuator]
Temp. out door	Standard	Status	Standard	Zone		3x0244	4.19	A1141	4.19	0	0	ZoneModule 1 - VAV Heating Actuator Setpoint [scale depending on the connected actuator]
Temp. out door	Standard	Status	Standard	Zone		3x0245	4.19	A1142	4.19	0	0	ZoneModule 1 - VAV Heating Actuator Flow [scale depending on the connected actuator]
Temp. out door	Standard	Status	Standard	Zone		3x0246	4.19	A1143	4.19	0	0	ZoneModule 1 - VAV Cooling Actuator Setpoint [scale depending on the connected actuator]
Temp. out door	Standard	Status	Standard	Zone		3x0247	4.19	A1144	4.19	0	0	ZoneModule 1 - VAV Cooling Actuator Flow [scale depending on the connected actuator]
Temp. out door	Standard	Status	Standard	Zone		3x0248	4.19	A1145	4.19	-4000	10000	ZoneModule 1 - Room Temperature Value [1/100°C]
Temp. out door	Standard	Status	Standard	Zone		3x0249	4.19	A1146	4.19	-4000	10000	ZoneModule 1 - Supply Temperature Value [1/100°C]
Temp. out door	Standard	Status	Standard	Zone		3x0250	4.19	A1147	4.19	-4000	10000	ZoneModule 1 - Remote Setpoint Offset [1/100°C]
Temp. out door	Standard	Status	Standard	Zone		3x0251	4.19	A1148	4.19	0	5000	ZoneModule 1 - CO2VOC Value [ppm]
Temp. out door	Standard	Status	Standard	Zone		3x0252	4.19	A1149	4.19	0	10000	ZoneModule 1 - RH Value [1/100%rh]
Temp. out door	Standard	Status	Standard	Zone		3x0253	4.19	A1150	4.19	0	2	ZoneModule 2 - Status: 0-No active alarm; 1=A-alarm active; 2=B-alarm active
Temp. out door	Standard	Status	Standard	Zone		3x0254	4.19	A1151	4.19	0	0	ZoneModule 2 - VAV Supply 1 Actuator Setpoint [scale depending on the connected actuator]
Temp. out door	Standard	Status	Standard	Zone		3x0255	4.19	A1152	4.19	0	0	ZoneModule 2 - VAV Supply 1 Actuator Flow [scale depending on the connected actuator]
Temp. out door	Standard	Status	Standard	Zone		3x0256	4.19	A1153	4.19	0	0	ZoneModule 2 - VAV Supply 2 Actuator Setpoint [scale depending on the connected actuator]
Temp. out door	Standard	Status	Standard	Zone		3x0257	4.19	A1154	4.19	0	0	ZoneModule 2 - VAV Supply 2 Actuator Flow [scale depending on the connected actuator]
Temp. out door	Standard	Status	Standard	Zone		3x0258	4.19	A1155	4.19	0	0	ZoneModule 2 - VAV Extract Actuator Setpoint [scale depending on the connected actuator]
Temp. out door	Standard	Status	Standard	Zone		3x0259	4.19	A1156	4.19	0	0	ZoneModule 2 - VAV Extract Actuator Flow [scale depending on the connected actuator]
Temp. out door	Standard	Status	Standard	Zone		3x0260	4.19	A1157	4.19	0	0	ZoneModule 2 - VAV Heating Actuator Setpoint [scale depending on the connected actuator]
Temp. out door	Standard	Status	Standard	Zone		3x0261	4.19	A1158	4.19	0	0	ZoneModule 2 - VAV Heating Actuator Flow [scale depending on the connected actuator]
Temp. out door	Standard	Status	Standard	Zone		3x0262	4.19	A1159	4.19	0	0	ZoneModule 2 - VAV Cooling Actuator Setpoint [scale depending on the connected actuator]
Temp. out door	Standard	Status	Standard	Zone		3x0263	4.19	A1160	4.19	0	0	ZoneModule 2 - VAV Cooling Actuator Flow [scale depending on the connected actuator]
Temp. out door	Standard	Status	Standard	Zone		3x0264	4.19	A1161	4.19	-4000	10000	ZoneModule 2 - Room Temperature Value [1/100°C]
Temp. out door	Standard	Status	Standard	Zone		3x0265	4.19	A1162	4.19	-4000	10000	ZoneModule 2 - Supply Temperature Value [1/100°C]
Temp. out door	Standard	Status	Standard	Zone		3x0266	4.19	A1163	4.19	-4000	10000	ZoneModule 2 - Remote Setpoint Offset [1/100°C]
Temp. out door	Standard	Status	Standard	Zone		3x0267	4.19	A1164	4.19	0	5000	ZoneModule 2 - RH Value [1/100%rh]
Temp. out door	Standard	Status	Standard	Zone		3x0268	4.19	A1165	4.19	0	10000	ZoneModule 2 - CO2VOC Value [ppm]
Temp. out door	Standard	Status	Standard	Zone		3x0269	4.19	A1166	4.19	0	2	ZoneModule 3 - Status: 0-No active alarm; 1=A-alarm active; 2=B-alarm active
Temp. out door	Standard	Status	Standard	Zone		3x0270	4.19	A1167	4.19	0	0	ZoneModule 3 - VAV Supply 1 Actuator Setpoint [scale depending on the connected actuator]
Temp. out door	Standard	Status	Standard	Zone		3x0271	4.19	A1168	4.19	0	0	ZoneModule 3 - VAV Supply 1 Actuator Flow [scale depending on the connected actuator]
Temp. out door	Standard	Status	Standard	Zone		3x0272	4.19	A1169	4.19	0	0	ZoneModule 3 - VAV Supply 2 Actuator Setpoint [scale depending on the connected actuator]
Temp. out door	Standard	Status	Standard	Zone		3x0273	4.19	A1170	4.19	0	0	ZoneModule 3 - VAV Supply 2 Actuator Flow [scale depending on the connected actuator]
Temp. out door	Standard	Status	Standard	Zone		3x0274	4.19	A1171	4.19	0	0	ZoneModule 3 - VAV Extract Actuator Setpoint [scale depending on the connected actuator]
Temp. out door	Standard	Status	Standard	Zone		3x0275	4.19	A1172	4.19	0	0	ZoneModule 3 - VAV Extract Actuator Flow [scale depending on the connected actuator]
Temp. out door	Standard	Status	Standard	Zone		3x0276	4.19	A1173	4.19	0	0	ZoneModule 3 - VAV Heating Actuator Setpoint [scale depending on the connected actuator]
Temp. out door	Standard	Status	Standard	Zone		3x0277	4.19	A1174	4.19	0	0	ZoneModule 3 - VAV Heating Actuator Flow [scale depending on the connected actuator]
Temp. out door	Standard	Status	Standard	Zone		3x0278	4.19	A1175	4.19	0	0	ZoneModule 3 - VAV Cooling Actuator Setpoint [scale depending on the connected actuator]
Temp. out door	Standard	Status	Standard	Zone		3x0279	4.19	A1176	4.19	0	0	ZoneModule 3 - VAV Cooling Actuator Flow [scale depending on the connected actuator]
Temp. out door	Standard	Status	Standard	Zone		3x0280	4.19	A1177	4.19	-4000	10000	ZoneModule 3 - Room Temperature Value [1/100°C]
Temp. out door	Standard	Status	Standard	Zone		3x0281	4.19	A1178	4.19	-4000	10000	ZoneModule 3 - Supply Temperature Value [1/100°C]
Temp. out door	Standard	Status	Standard	Zone		3x0282	4.19	A1179	4.19	-4000	10000	ZoneModule 3 - Remote Setpoint Offset [1/100°C]
Temp. out door	Standard	Status	Standard	Zone		3x0283	4.19	A1180	4.19	0	5000	ZoneModule 3 - CO2VOC Value [ppm]
Temp. out door	Standard	Status	Standard	Zone		3x0284	4.19	A1181	4.19	0	10000	ZoneModule 3 - RH Value [1/100%rh]
Temp. out door	Standard	Status	Standard	Zone		3x0285	4.19	A1182	4.19	0	2	ZoneModule 4 - Status: 0-No active alarm; 1=A-alarm active; 2=B-alarm active
Temp. out door	Standard	Status	Standard	Zone		3x0286	4.19	A1183	4.19	0	0	ZoneModule 4 - VAV Supply 1 Actuator Setpoint [scale depending on the connected actuator]
Temp. out door	Standard	Status	Standard	Zone		3x0287	4.19	A1184	4.19	0	0	ZoneModule 4 - VAV Supply 1 Actuator Flow [scale depending on the connected actuator]
Temp. out door	Standard	Status	Standard	Zone		3x0288	4.19	A1185	4.19	0	0	ZoneModule 4 - VAV Supply 2 Actuator Setpoint [scale depending on the connected actuator]
Temp. out door	Standard	Status	Standard	Zone		3x0289	4.19	A1186	4.19	0	0	ZoneModule 4 - VAV Supply 2 Actuator Flow [scale depending on the connected actuator]
Temp. out door	Standard	Status	Standard	Zone		3x0290	4.19	A1187	4.19	0	0	ZoneModule 4 - VAV Extract Actuator Setpoint [scale depending on the connected actuator]
Temp. out door	Standard	Status	Standard	Zone		3x0291	4.19	A1188	4.19	0	0	ZoneModule 4 - VAV Extract Actuator Flow [scale depending on the connected actuator]
Temp. out door	Standard	Status	Standard	Zone		3x0292	4.19	A1189	4.19	0	0	ZoneModule 4 - VAV Heating Actuator Setpoint [scale depending on the connected actuator]
Temp. out door	Standard	Status	Standard	Zone		3x0293	4.19	A1190	4.19	0	0	ZoneModule 4 - VAV Heating Actuator Flow [scale depending on the connected actuator]
Temp. out door	Standard	Status	Standard	Zone		3x0294	4.19	A1191	4.19	0	0	ZoneModule 4 - VAV Cooling Actuator Setpoint [scale depending on the connected actuator]
Temp. out door	Standard	Status	Standard	Zone		3x0295	4.19	A1192	4.19	0	0	ZoneModule 4 - VAV Cooling Actuator Flow [scale depending on the connected actuator]
Temp. out door	Standard	Status	Standard	Zone		3x0296	4.19	A1193	4.19	-4000	10000	ZoneModule 4 - Room Temperature Value [1/100°C]
Temp. out door	Standard	Status	Standard	Zone		3x0297	4.19	A1194	4.19	-4000	10000	ZoneModule 4 - Supply Temperature Value [1/100°C]
Temp. out door	Standard	Status	Standard	Zone		3x0298	4.19	A1195	4.19	-4000	10000	ZoneModule 4 - Remote Setpoint Offset [1/100°C]

Fan	Set point	SupH/SpeedSet	ls	4d0012	xx	AV11	xx	0	30000	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	ExLoSpeedSet	ls	4d0014	xx	AV12	xx	0	30000	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	ExHsSpeedSet	ls	4d0015	xx	AV13	xx	0	30000	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	MtRegOffset	%	4d0017	xx	AV14	xx	-5000	5000	0	Supply/extract motor offset, slave and CO2 control [1/100%]
Fan	Set point	MtRegOffset	%	NA	NA	AV15	xx	-5000	5000	0	Supply/extract motor offset, slave and CO2 control [1/100%]
	Set point	CO2_UseSetLP	ppm	4d0020	xx	AV17	xx	0	10000	1000	CO2 control: setpoint for low period (high CO2 value) [ppm]
CO2 sensor	Set point	CO2_UseSetHP	ppm	4d0021	xx	AV18	xx	0	10000	1000	CO2 control: setpoint for high period (high CO2 value) [ppm]
	Set point	CO2_MtFlow	ls	4d0022	xx	AV19	xx	0	30000	3000	CO2 control: min. flow [l/s] or [m3/h] or [CFM] (Depending on the unit selection in the OJ-Air2Master)
CO2 sensor	Set point	CO2_MaxFlow	ls	4d0023	xx	AV20	xx	0	30000	7000	CO2 control: max. flow [l/s] or [m3/h] or [CFM] (Depending on the unit selection in the OJ-Air2Master)
	Set point	CO2_SupFWOffs	%	4d0024	xx	AV21	xx	-5000	5000	0	CO2 control: supply flow offset [1/100%]
CO2 sensor	Alarm	CO2_AltLimit	ppm	4d0025	xx	AV22	xx	100	10000	2000	CO2 concentration alarm limit setpoint [ppm]
	Control	CO2_Pb	sec	4d0026	xx	AV23	xx	10	10000	500	CO2 control: P-band [ppm]
Fan optimizer	Control	CO2_I_Time	sec	4d0027	xx	AV24	xx	10	30000	700	CO2 control: I-time [sec]
	Set point	FAN_SupMinFlow	ls	4d0028	xx	AV25	xx	0	30000	2000	Fan optimizer supply control: min. flow [l/s] or [m3/h] or [CFM] (Depending on the unit selection in the OJ-Air2Master)
Fan optimizer	Set point	FAN_SupMaxFlow	ls	4d0029	xx	AV26	xx	0	30000	10000	Fan optimizer extract control: min. flow [l/s] or [m3/h] or [CFM] (Depending on the unit selection in the OJ-Air2Master)
	Set point	FAN_ExtMinFlow	ls	4d0030	xx	AV27	xx	0	30000	2000	Fan optimizer supply control: max. flow [l/s] or [m3/h] or [CFM] (Depending on the unit selection in the OJ-Air2Master)
Fan optimizer	Set point	FAN_ExtMaxFlow	ls	4d0031	xx	AV28	xx	0	30000	10000	Fan optimizer extract control: max. flow [l/s] or [m3/h] or [CFM] (Depending on the unit selection in the OJ-Air2Master)
	Set point	FAN_ExtFWOffs	%	4d0032	xx	AV29	xx	-5000	5000	0	Fan optimizer extract control: flow offset [1/100%]
Fan	Set point	SupMtr_I_Time	sec	4d0033	xx	AV30	xx	5	1000	50	Supply motor control: I-time setpoint [sec]
	Set point	ExMtr_I_Time	sec	4d0034	xx	AV31	xx	5	1000	50	Extract motor control: I-time setpoint [sec]
Fan	Set point	ExFlowFireSet	%	4d0035	xx	AV32	xx	0	10000	8000	Extract motor speed setpoint in case of fire alarm [%]
	Set point	HS_AfterRunSet	%	4d0037	xx	AV34	xx	0	480	0	Run-on time, high speed [min]
Fan	Set point	FwTmPmpSet	%	4d0040	xx	AV35	xx	0	5000	2500	Reduction of flow / percentage of setpoint [1/100%]
	Set point	FwTmPmpStop	%	4d0041	xx	AV36	xx	-1000	1500	500	Reduction of flow / stop temp. setpoint [1/100°C]
Cooling, DX	Set point	DXOutTempMin1	°C	4d0042	xx	AV37	xx	0	4000	1600	Min. outdoor temperature for activating DX relay no. 1
	Set point	DXOutTempMin2	°C	4d0043	xx	AV211	xx	0	4000	1600	Min. outdoor temperature for activating DX relay no. 2
Cooling, DX	Set point	DXOutTempMin3	°C	4d0044	xx	AV38	xx	0	4000	1600	Min. outdoor temperature for activating DX relay no. 3
	Set point	DXOutTempMin4	°C	4d0046	xx	AV212	xx	0	4000	1600	Min. outdoor temperature for activating DX relay no. 4
AHU controller	Time	TimeSwYear	h	4d0050	xx	AV38	xx	2000	2099	Actual year	
AHU controller	Time	TimeSwMonth	h	4d0051	xx	AV39	xx	1	12	Actual month	
	Time	TimeSwDate	h	4d0052	xx	AV40	xx	1	31	Actual date	
AHU controller	Time	TimeSwHour	h	4d0053	xx	AV41	xx	0	23	Actual hour	
	Time	TimeSwMinute	Min	4d0054	xx	AV42	xx	0	59	Actual minutes	
AHU controller	Time	TimeSwSecond	Sec	4d0055	xx	AV43	xx	0	59	Actual seconds	
	Control	ExDfStMin	Min	4d0056	xx	AV44	xx	0	6	0	Extended operation start – day (0=Mon, 6=Sun)
AHU controller	Control	ExDfStStopDay	Min	4d0057	xx	AV45	xx	0	1439	0	Extended operation stop – day (0=Mon, 6=Sun)
	Control	ExDfStStopMin	Min	4d0058	xx	AV46	xx	0	6	0	Extended operation stop – time (hours times 60 plus minutes)
AHU controller	Control	ExDfStStopDay	Min	4d0059	xx	AV47	xx	0	1439	0	Extended operation stop – time (hours times 60 plus minutes)
	Control	ExDfStStopMin	Min	4d0060	xx	AV48	xx	0	2	0	Timer program type (0..20=Mon, Sun, 1=Mon, Fri+weekend, 2=all week)
AHU controller	Week Schedule	TimeSwStart00	Min	4d0061	xx	AV49	xx	0	1439	960	Tuesday: First period start time [minutes after midnight]
	Week Schedule	TimeSwStart01	Min	4d0062	xx	AV50	xx	0	1439	960	Wednesday: First period start time [minutes after midnight]
AHU controller	Week Schedule	TimeSwStart02	Min	4d0063	xx	AV51	xx	0	1439	960	Thursday: First period start time [minutes after midnight]
	Week Schedule	TimeSwStart03	Min	4d0064	xx	AV52	xx	0	1439	960	Friday: First period start time [minutes after midnight]
AHU controller	Week Schedule	TimeSwStart04	Min	4d0065	xx	AV53	xx	0	1439	960	Saturday: First period start time [minutes after midnight]
	Week Schedule	TimeSwStart05	Min	4d0066	xx	AV54	xx	0	1439	960	Sunday: First period start time [minutes after midnight]
AHU controller	Week Schedule	TimeSwStart06	Min	4d0067	xx	AV55	xx	0	1439	360	Monday: Second period start time [minutes after midnight]
	Week Schedule	TimeSwStart07	Min	4d0068	xx	AV56	xx	0	1439	480	Tuesday: Second period start time [minutes after midnight]
AHU controller	Week Schedule	TimeSwStart08	Min	4d0069	xx	AV57	xx	0	1439	960	Wednesday: Second period start time [minutes after midnight]
	Week Schedule	TimeSwStart09	Min	4d0070	xx	AV58	xx	0	1439	960	Thursday: Second period start time [minutes after midnight]
AHU controller	Week Schedule	TimeSwStart10	Min	4d0071	xx	AV59	xx	0	1439	960	Friday: Second period start time [minutes after midnight]
	Week Schedule	TimeSwStart11	Min	4d0072	xx	AV60	xx	0	1439	960	Saturday: Second period start time [minutes after midnight]
AHU controller	Week Schedule	TimeSwStart12	Min	4d0073	xx	AV61	xx	0	1439	960	Sunday: Second period start time [minutes after midnight]
	Week Schedule	TimeSwStart13	Min	4d0074	xx	AV62	xx	0	1439	360	Monday: Third period start time [minutes after midnight]
AHU controller	Week Schedule	TimeSwStart14	Min	4d0075	xx	AV63	xx	0	1439	360	Tuesday: Third period start time [minutes after midnight]
	Week Schedule	TimeSwStart15	Min	4d0076	xx	AV64	xx	0	1439	480	Wednesday: Third period start time [minutes after midnight]
AHU controller	Week Schedule	TimeSwStart16	Min	4d0077	xx	AV65	xx	0	1439	960	Thursday: Third period start time [minutes after midnight]
	Week Schedule	TimeSwStart17	Min	4d0078	xx	AV66	xx	0	1439	960	Friday: Third period start time [minutes after midnight]
AHU controller	Week Schedule	TimeSwStart18	Min	4d0079	xx	AV67	xx	0	1439	960	Saturday: Third period start time [minutes after midnight]
	Week Schedule	TimeSwStart19	Min	4d0080	xx	AV68	xx	0	1439	960	Sunday: Third period start time [minutes after midnight]
AHU controller	Week Schedule	TimeSwStart20	Min	4d0081	xx	AV69	xx	0	1439	480	Monday: Fourth period start time [minutes after midnight]
	Week Schedule	TimeSwStart21	Min	4d0082	xx	AV70	xx	0	1439	360	Tuesday: Fourth period start time [minutes after midnight]
AHU controller	Week Schedule	TimeSwStart22	Min	4d0083	xx	AV71	xx	0	1439	480	Wednesday: Fourth period start time [minutes after midnight]
	Week Schedule	TimeSwStart23	Min	4d0084	xx	AV72	xx	0	1439	960	Thursday: Fourth period start time [minutes after midnight]
AHU controller	Week Schedule	TimeSwStart24	Min	4d0085	xx	AV73	xx	0	1439	960	Friday: Fourth period start time [minutes after midnight]
	Week Schedule	TimeSwStart25	Min	4d0086	xx	AV74	xx	0	1439	960	Saturday: Fourth period start time [minutes after midnight]
AHU controller	Week Schedule	TimeSwStart26	Min	4d0087	xx	AV75	xx	0	1439	960	Sunday: Fourth period start time [minutes after midnight]
	Week Schedule	TimeSwStart27	Min	4d0088	xx	AV76	xx	0	1439	960	Monday: First period stop time [minutes after midnight]
AHU controller	Week Schedule	TimeSwStop01	Min	4d0089	xx	AV77	xx	1	1440	1440	Tuesday: First period stop time [minutes after midnight]
	Week Schedule	TimeSwStop02	Min	4d0090	xx	AV78	xx	1	1440	1440	Wednesday: First period stop time [minutes after midnight]
AHU controller	Week Schedule	TimeSwStop03	Min	4d0092	xx	AV80	xx	1	1440	1440	Thursday: First period stop time [minutes after midnight]
	Week Schedule	TimeSwStop04	Min	4d0093	xx	AV81	xx	1	1440	1440	Friday: First period stop time [minutes after midnight]
AHU controller	Week Schedule	TimeSwStop05	Min	4d0094	xx	AV82	xx	1	1440	1440	Saturday: First period stop time [minutes after midnight]
	Week Schedule	TimeSwStop06	Min	4d0095	xx	AV83	xx	1	1440	1440	Sunday: First period stop time [minutes after midnight]
AHU controller	Week Schedule	TimeSwStop07	Min	4d0096	xx	AV84	xx	1	1440	1440	Monday: Second period stop time [minutes after midnight]
	Week Schedule	TimeSwStop08	Min	4d0097	xx	AV85	xx	1	1440	1440	Tuesday: Second period stop time [minutes after midnight]
AHU controller	Week Schedule	TimeSwStop09	Min	4d0098	xx	AV86	xx	1	1440	1440	Wednesday: Second period stop time [minutes after midnight]
	Week Schedule	TimeSwStop10	Min	4d0099	xx	AV87	xx	1	1440	1440	Thursday: Second period stop time [minutes after midnight]
AHU controller	Week Schedule	TimeSwStop11	Min	4d0100	xx	AV88	xx	1	1440	1440	Friday: Second period stop time [minutes after midnight]

AHU controller	Standard	TimeSwStp12	Min	400101	xx	xx	xx	1	1440	960 Saturday: Second period stop time [minutes after midnight]
AHU controller	Standard	TimeSwStp13	Min	400102	xx	xx	xx	1	1440	1440 Sunday: Second period stop time [minutes after midnight]
AHU controller	Standard	TimeSwStp14	Min	400103	xx	xx	xx	1	1440	480 Monday: Third period stop time [minutes after midnight]
AHU controller	Standard	TimeSwStp15	Min	400104	xx	xx	xx	1	1440	360 Tuesday: Third period stop time [minutes after midnight]
AHU controller	Standard	TimeSwStp16	Min	400105	xx	xx	xx	1	1440	360 Wednesday: Third period stop time [minutes after midnight]
AHU controller	Standard	TimeSwStp17	Min	400106	xx	xx	xx	1	1440	1440 Thursday: Fourth period stop time [minutes after midnight]
AHU controller	Standard	TimeSwStp18	Min	400107	xx	xx	xx	1	1440	480 Friday: Third period stop time [minutes after midnight]
AHU controller	Standard	TimeSwStp19	Min	400108	xx	xx	xx	1	1440	360 Saturday: Third period stop time [minutes after midnight]
AHU controller	Standard	TimeSwStp20	Min	400109	xx	xx	xx	1	1440	960 Sunday: Third period stop time [minutes after midnight]
AHU controller	Standard	TimeSwStp21	Min	400110	xx	xx	xx	1	1440	1440 Monday: Fourth period stop time [minutes after midnight]
AHU controller	Standard	TimeSwStp22	Min	400111	xx	xx	xx	1	1440	480 Tuesday: Fourth period stop time [minutes after midnight]
AHU controller	Standard	TimeSwStp23	Min	400112	xx	xx	xx	1	1440	360 Wednesday: Fourth period stop time [minutes after midnight]
AHU controller	Standard	TimeSwStp24	Min	400113	xx	xx	xx	1	1440	960 Thursday: Fourth period stop time [minutes after midnight]
AHU controller	Standard	TimeSwStp25	Min	400114	xx	xx	xx	1	1440	1440 Friday: Fourth period stop time [minutes after midnight]
AHU controller	Standard	TimeSwStp26	Min	400115	xx	xx	xx	1	1440	480 Saturday: Fourth period stop time [minutes after midnight]
AHU controller	Standard	TimeSwStp27	Min	400116	xx	xx	xx	1	1440	360 Sunday: Fourth period stop time [minutes after midnight]
AHU controller	Standard	TimeSwMod00	Min	400117	xx	xx	xx	0	6	2 Monday: First period operating mode: 0=OFF, 1=low speed, 2=high speed, 6=medium speed
AHU controller	Standard	TimeSwMod01	Min	400118	xx	xx	xx	0	6	1 Tuesday: First period operating mode: 0=OFF, 1=low speed, 2=high speed, 6=medium speed
AHU controller	Standard	TimeSwMod02	Min	400119	xx	xx	xx	0	6	1 Wednesday: First period operating mode: 0=OFF, 1=low speed, 2=high speed, 6=medium speed
AHU controller	Standard	TimeSwMod03	Min	400120	xx	xx	xx	0	6	2 Thursday: First period operating mode: 0=OFF, 1=low speed, 2=high speed, 6=medium speed
AHU controller	Standard	TimeSwMod04	Min	400121	xx	xx	xx	0	6	2 Friday: First period operating mode: 0=OFF, 1=low speed, 2=high speed, 6=medium speed
AHU controller	Standard	TimeSwMod05	Min	400122	xx	xx	xx	0	6	1 Saturday: First period operating mode: 0=OFF, 1=low speed, 2=high speed, 6=medium speed
AHU controller	Standard	TimeSwMod06	Min	400123	xx	xx	xx	0	6	1 Sunday: First period operating mode: 0=OFF, 1=low speed, 2=high speed, 6=medium speed
AHU controller	Standard	TimeSwMod07	Min	400124	xx	xx	xx	0	6	2 Monday: Second period operating mode: 0=OFF, 1=low speed, 2=high speed, 6=medium speed
AHU controller	Standard	TimeSwMod08	Min	400125	xx	xx	xx	0	6	2 Tuesday: Second period operating mode: 0=OFF, 1=low speed, 2=high speed, 6=medium speed
AHU controller	Standard	TimeSwMod09	Min	400126	xx	xx	xx	0	6	1 Wednesday: Second period operating mode: 0=OFF, 1=low speed, 2=high speed, 6=medium speed
AHU controller	Standard	TimeSwMod10	Min	400127	xx	xx	xx	0	6	2 Thursday: Second period operating mode: 0=OFF, 1=low speed, 2=high speed, 6=medium speed
AHU controller	Standard	TimeSwMod11	Min	400128	xx	xx	xx	0	6	2 Friday: Second period operating mode: 0=OFF, 1=low speed, 2=high speed, 6=medium speed
AHU controller	Standard	TimeSwMod12	Min	400129	xx	xx	xx	0	6	1 Saturday: Second period operating mode: 0=OFF, 1=low speed, 2=high speed, 6=medium speed
AHU controller	Standard	TimeSwMod13	Min	400130	xx	xx	xx	0	6	1 Sunday: Second period operating mode: 0=OFF, 1=low speed, 2=high speed, 6=medium speed
AHU controller	Standard	TimeSwMod14	Min	400131	xx	xx	xx	0	6	2 Monday: Third period operating mode: 0=OFF, 1=low speed, 2=high speed, 6=medium speed
AHU controller	Standard	TimeSwMod15	Min	400132	xx	xx	xx	0	6	2 Tuesday: Third period operating mode: 0=OFF, 1=low speed, 2=high speed, 6=medium speed
AHU controller	Standard	TimeSwMod16	Min	400133	xx	xx	xx	0	6	1 Wednesday: Third period operating mode: 0=OFF, 1=low speed, 2=high speed, 6=medium speed
AHU controller	Standard	TimeSwMod17	Min	400134	xx	xx	xx	0	6	2 Thursday: Third period operating mode: 0=OFF, 1=low speed, 2=high speed, 6=medium speed
AHU controller	Standard	TimeSwMod18	Min	400135	xx	xx	xx	0	6	2 Friday: Third period operating mode: 0=OFF, 1=low speed, 2=high speed, 6=medium speed
AHU controller	Standard	TimeSwMod19	Min	400136	xx	xx	xx	0	6	1 Saturday: Third period operating mode: 0=OFF, 1=low speed, 2=high speed, 6=medium speed
AHU controller	Standard	TimeSwMod20	Min	400137	xx	xx	xx	0	6	2 Sunday: Third period operating mode: 0=OFF, 1=low speed, 2=high speed, 6=medium speed
AHU controller	Standard	TimeSwMod21	Min	400138	xx	xx	xx	0	6	1 Monday: Fourth period operating mode: 0=OFF, 1=low speed, 2=high speed, 6=medium speed
AHU controller	Standard	TimeSwMod22	Min	400139	xx	xx	xx	0	6	1 Tuesday: Fourth period operating mode: 0=OFF, 1=low speed, 2=high speed, 6=medium speed
AHU controller	Standard	TimeSwMod23	Min	400140	xx	xx	xx	0	6	2 Wednesday: Fourth period operating mode: 0=OFF, 1=low speed, 2=high speed, 6=medium speed
AHU controller	Standard	TimeSwMod24	Min	400141	xx	xx	xx	0	6	2 Thursday: Fourth period operating mode: 0=OFF, 1=low speed, 2=high speed, 6=medium speed
AHU controller	Standard	TimeSwMod25	Min	400142	xx	xx	xx	0	6	1 Friday: Fourth period operating mode: 0=OFF, 1=low speed, 2=high speed, 6=medium speed
AHU controller	Standard	TimeSwMod26	Min	400143	xx	xx	xx	0	6	2 Saturday: Fourth period operating mode: 0=OFF, 1=low speed, 2=high speed, 6=medium speed
AHU controller	Standard	TimeSwMod27	Min	400144	xx	xx	xx	0	6	2 Sunday: Fourth period operating mode: 0=OFF, 1=low speed, 2=high speed, 6=medium speed
AHU controller	Control	TempRegMode	°C	400145	xx	xx	xx	0	3	0=supply, 1=Extract, 2=Room, 3=supply/extract differential
AHU controller	Set point	TempRegSet	°C	400146	xx	xx	xx	0	4000	Temperature setpoint for actual control type [1/100°C]
AHU controller	Set point	SupTempMinSet	°C	400150	xx	xx	xx	0	4000	1000 Min. limit supply temperature [1/100°C]
AHU controller	Set point	SupTempMaxSet	°C	400151	xx	xx	xx	2000	5000	3500 Max. limit supply temperature [1/100°C]
AHU controller	Set point	SupTempDiffSet	°C	400152	xx	xx	xx	100	1500	300 Only relevant when TempRegMode is 3 (supply/extract differential)
AHU controller	Alarm	SupTempDiffAlr	°C	400156	xx	xx	xx	200	1500	Alarm limit for temperature differential between supply setpoint and actual value [1/100°C]
AHU controller	Control	SupTempHeatPB	°C	400157	xx	xx	xx	200	10000	750 P-band for supply air temperature control [1/100°C]
AHU controller	Control	SupTempCool_IT	sec	400158	xx	xx	xx	10	30000	700 -Hme for supply cooling control [sec]
AHU controller	Control	SupTempExc_IT	sec	400159	xx	xx	xx	10	30000	120 -Hme for supply heat exchanger control [sec]
AHU controller	Control	SupTempHeat_IT	sec	400160	xx	xx	xx	10	30000	300 -Hme for supply heating control [sec]
AHU controller	Control	SupTempDrRegIt	sec	400161	xx	xx	xx	10	30000	120 -Hme for supply flow reduction in case of low supply temperature [sec]
AHU controller	Control	SupTempDrRegIT	sec	400162	xx	xx	xx	10	30000	300 -Hme for supply heating2 control [sec]
AHU controller	Alarm	ExtTempDiffAlr	°C	400164	xx	xx	xx	200	1500	500 Alarm limit for temperature differential between extract setpoint and actual value [1/100°C]
AHU controller	Control	ExtTempHeatPB	°C	400165	xx	xx	xx	200	10000	500 P-band for extract air temperature control [1/100°C]
AHU controller	Control	ExtTempCool_IT	sec	400166	xx	xx	xx	10	30000	1000 -Hme for extract cooling control [sec]
AHU controller	Control	ExtTempExc_IT	sec	400167	xx	xx	xx	10	30000	300 -Hme for extract heat exchanger control [sec]
AHU controller	Control	ExtTempHeat_IT	sec	400169	xx	xx	xx	10	30000	600 -Hme for extract flow reduction in case of low supply temperature [sec]
AHU controller	Control	ExtTempDrRegIt	sec	400170	xx	xx	xx	10	30000	300 -Hme for heating 2 control [sec]
AHU controller	Control	ExtTempDrRegIT	sec	400171	xx	xx	xx	10	30000	600 -Hme for heating 2 control [sec]
AHU controller	Control	SWTC_WinX1	°C	400175	xx	xx	xx	-3000	3000	-1500 Summer/Summer temp. comp. high outdoor temp. setpoint, winter [1/100°C]
AHU controller	Control	SWTC_WinX2	°C	400176	xx	xx	xx	-1000	1000	0 Summer/Winter temp. comp. low outdoor temp. setpoint, winter [1/100°C]
AHU controller	Control	SWTC_SumX1	°C	400177	xx	xx	xx	2000	3000	2000 Summer/Winter temp. comp. high outdoor temp. setpoint, summer [1/100°C]
AHU controller	Control	SWTC_SumX2	°C	400178	xx	xx	xx	2000	4000	3000 Summer/Winter temp. comp. high outdoor temp. setpoint, summer [1/100°C]
AHU controller	Control	SWTCWinComVal	°C	400179	xx	xx	xx	0	1000	500 Summer/Winter temp. comp. winter compensation [1/100°C]
AHU controller	Control	SWTCSumComVal	°C	400180	xx	xx	xx	-1000	1000	-500 Summer/Winter temp. comp. summer compensation [1/100°C]
AHU controller	Control	SW_Mode	°C	400185	xx	xx	xx	0	4	Summer/Winter changeover: 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	Control	SW_OutWinterON	°C	400186	xx	xx	xx	-3000	4000	0 Outdoor temperature for start of winter operation (SW_Mode = 1) [1/100°C]
AHU controller	Control	SW_OutSummerON	°C	400187	xx	xx	xx	-3000	4000	2000 Outdoor temperature for start of summer operation (SW_Mode = 1) [1/100°C]
AHU controller	Control	SW_MonthWinON	°C	400188	xx	xx	xx	7	12	11 Month for start of winter operation (SW_Mode = 2)
AHU controller	Control	SW_DateWinON	°C	400189	xx	xx	xx	31	31	1 Date for start of winter operation (SW_Mode = 2)
AHU controller	Control	SW_MonthSumON	°C	400190	xx	xx	xx	1	6	5 Month for start of summer operation (SW_Mode = 2)
AHU controller	Control	SW_DateSumON	°C	400191	xx	xx	xx	1	6	5 Date for start of summer operation (SW_Mode = 2)
AHU controller	Control	RecStpTm	°C	400195	xx	xx	xx	500	4000	1900 Stop temperature for recirculation [1/100°C]
AHU controller	Control	RecStpTm	°C	400196	xx	xx	xx	500	4000	2100 Stop temperature for recirculation [1/100°C]
AHU controller	Control	SupTempFireAir	°C	400200	xx	xx	xx	5000	12000	8000 Setpoint for internal fire alarm in supply duct [1/100°C]
AHU controller	Control	ExtTempFireAir	°C	400201	xx	xx	xx	3500	12000	7000 Setpoint for internal fire alarm in extract duct [1/100°C]
AHU controller	Control	CompFWFirePc	%	400205	xx	xx	xx	0	10000	2500 Increase in fan speed when cooling is active [%]
AHU controller	Control	CoolOutTmPMin	°C	400206	xx	xx	xx	0	3000	1500 Min. outdoor temperature for start of cooling

Cooling coil	Set point	Standard	CoolSupMinTmp	°C	4x0207	x.xx	AV169	x.xx	0	2500	1200 Min. supply temperature when cooling is active (only with room temp. control)
AHU controller	Summer Night Cooling	Standard	SN_ExtTmpStart	°C	4x0210	x.xx	AV170	x.xx	1500	2300 Summer night extract/room temp. start [1/100°C]	
AHU controller	Summer Night Cooling	Standard	SN_ExtTmpStop	°C	4x0211	x.xx	AV171	x.xx	1000	2300 Summer night extract/room temp. stop [1/100°C]	
AHU controller	Summer Night Cooling	Standard	SN_OutTmpStart	°C	4x0212	x.xx	AV172	x.xx	500	1200 Summer night outdoor temp. start [1/100°C]	
AHU controller	Summer Night Cooling	Standard	SN_OutTmpStop	°C	4x0213	x.xx	AV173	x.xx	500	1200 Summer night outdoor temp. control setpoint [1/100°C]	
AHU controller	Summer Night Cooling	Standard	SN_StartTime	Min	4x0214	x.xx	AV174	x.xx	0	1380 Summer night start [min]	
AHU controller	Summer Night Cooling	Standard	SN_StopTime	Min	4x0215	x.xx	AV175	x.xx	0	1439 Summer night stop [min]	
Heat exchanger	Set point	Special	CExDeletTemp	°C	4x0220	x.xx	AV176	x.xx	-500	500 Min. exhaust temp setpoint for cross-flow heat exchanger [1/100°C]	
Heat exchanger	Control	Special	CExDeletPress	Pa	4x0221	x.xx	AV177	x.xx	200	500 P-band for bypass control of cross-flow heat exchanger [1/100°C]	
Heat exchanger	Set point	Special	CExDeletTime	Sec	4x0222	x.xx	NA	NA	10	30 Setpoint for pressure drop across cross-flow exchanger for start of de-icing [Pa]	
Heat exchanger	Control	Standard	BattEXC_PumpFc	Sec	4x0223	x.xx	NA	NA	180	300 Setpoint for duration of heat exchanger de-icing [sec]	
Heat exchanger	Control	Standard	BattEXC_PumpFc	Sec	4x0225	x.xx	AV178	x.xx	0	3 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 3 -> Pump runs if outdoor temp. is < temp. setpoint for pump start	
Heat exchanger	Control	Standard	BattEXC_PumpSt	°C	4x0226	x.xx	AV179	x.xx	0	4000 ONLY used if CoEXC_PumpFunc (Address 224) = 2 Pump runs if outdoor temp. is < temp. setpoint for pump start	
Heat exchanger	Alarm	Standard	BattEXC_AirSet	°C	4x0227	x.xx	AV180	x.xx	-1000	2000 Temp. differential alarm setpoint for heat exchanger coil 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	Set point	Standard	Humid_SupSet	%	4x0228	x.xx	AV304	6.12	0	10000	
Heating coil 1, Water	Set point	Standard	HW1UpStartPow	%	4x0230	x.xx	AV181	x.xx	0	10000 ONLY used if HW1_PumpFunc (Address 230) = 2 Pump runs if outdoor temp. is < temp. setpoint for pump start	
Heating coil 1, Water	Control	Standard	HW1PumpFunc		4x0231	x.xx	AV182	x.xx	0	3 0 -> Pump runs constantly 1 -> Pump runs if heat demand is > 0 (AutoMode) 2 -> Pump runs if outdoor temp. is < temp. setpoint for pump start	
Heating coil 1, Water	Set point	Standard	HW1PmpStartTmp	°C	4x0232	x.xx	AV183	x.xx	500	3000 ONLY used if HW_PumpFunc (Address 230) = 2 Pump runs if outdoor temp. is < temp. setpoint for pump start	
Heating coil 1, Water	Set point	Standard	HW1FrzStopSet	°C	4x0233	x.xx	AV184	x.xx	500	2500 Setpoint for frost protection control when unit is in STOP mode [1/100°C]	
Heating coil 1, Water	Set point	Standard	HW1FrzDlISet	°C	4x0234	x.xx	AV185	x.xx	200	500 Setpoint for frost protection control when unit is in OPERATING mode [1/100°C]	
Heating coil 1, Water	Control	Standard	HW1FreezePB	°C	4x0235	x.xx	AV186	x.xx	200	500 P-band for frost protection control [1/100°C]	
Heating coil 1, Water	Set point	Standard	HW1FrzAirTpSet	°C	4x0236	x.xx	AV187	x.xx	200	200 Setpoint for frost protection temp. alarm [1/100°C]	
Heating coil 1, Water	Set point	Standard	HW1PmpStartPr	%	4x0237	x.xx	NA	NA	0	10000 ONLY used if HW1_PumpFunc (Address 230) = 1 The pump starts when the value is exceeded. 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	Control	Standard	CW_PumpFunc		4x0240	x.xx	AV188	x.xx	0	3 ONLY used if CW_PumpFunc (Address 239) = 2 Temp. setpoint for start of cooling coil pump Pump runs if outdoor temp. is > temp. setpoint for pump start	
Cooling coil	Set point	Standard	CW_PmpStartTmp	°C	4x0241	x.xx	AV189	x.xx	500	2100 ONLY used if CW_PumpFunc (Address 239) = 2 Temp. setpoint for start of cooling coil pump Pump runs if outdoor temp. is > temp. setpoint for pump start	
GreenZone	Set point	Standard	FanOptSupExtIn	%	4x0242	x.xx	AV223	x.xx	0	10000 External signal GreenZone, supply [1/100%]	
GreenZone	Set point	Standard	FISupExtIn	%	4x0243	x.xx	AV224	x.xx	0	10000 Alarm limit for pressure drop across intake filter (static mode)	
Filter	Alarm	Standard	FISupStair	Pa	4x0245	x.xx	AV190	x.xx	10	500 Alarm limit for pressure drop across exhaust filter (static mode)	
Filter	Alarm	Standard	FIEStairAir	Pa	4x0246	x.xx	AV191	x.xx	10	500 Alarm limit for pressure drop across exhaust filter (static mode)	
Filter	Alarm	Standard	FISupDynAir	%	4x0247	x.xx	AV192	x.xx	1000	5000 Alarm limit for pressure drop across intake filter (dynamic mode)	
Filter	Alarm	Standard	FIEStairDynAir	%	4x0248	x.xx	AV193	x.xx	1000	5000 Alarm limit for pressure drop across exhaust filter (dynamic mode)	
Filter	Alarm	Standard	FISup2Stair	Pa	4x0249	4.18	AV258	4.18	10	500 Filter Pressure Air Limit for SupFilter2 (static mode)	
AHU controller	Alarm	Standard	Air_MalSetup		4x0250	x.xx	AV194	x.xx	0	3 0 -> Emails sent 1 -> Emails sent for A-alarms 2 -> Emails sent for B-alarms 3 -> Emails sent for A and B-alarms User RE (B-Alarm relay) Function: 0 -> B-Alarm 1 -> High speed indication 2 -> High speed indication 3 -> Medium speed indication	
AHU controller	Alarm	Standard	UserRE_Func		4x0251	x.xx	AV195	x.xx	0	4 Pre-heating coil - Start-up output setpoint [1/100%]; when system is in start-up sequence	
Preheater coil	Set point	Standard	PHStartPr	%	4x0252	x.xx	AV206	x.xx	0	30000 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	
Preheater coil	Control	Standard	PHPumpMode		4x0253	x.xx	AV210	x.xx	0	4 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	
Preheater coil	Set point	Standard	PHPmpSTmpH	°C	4x0254	x.xx	AV208	x.xx	500	3000 Start temperature for circulation pump of pre-heating coil. ONLY used if PHPumpMode (Address 252) = 2 Pump runs if outdoor temp. is < temp. setpoint for pump start	
Preheater coil	Set point	Standard	PHStandbyTmp	°C	4x0255	x.xx	AV205	x.xx	500	4000 Pre-heating coil Setpoint for frost protection control when system is in STOP mode [1/100°C]	
Preheater coil	Set point	Standard	PHFrzDSetH	°C	4x0256	x.xx	AV209	x.xx	200	2000 Setpoint for frost protection control when system is in OPERATING mode [1/100°C]	
Preheater coil	Control	Standard	PHFrzPB	°C	4x0257	x.xx	AV207	x.xx	200	2000 P-band for frost protection control [1/100°C]	
Preheater coil	Alarm	Standard	PHMeAirFz	°C	4x0258	x.xx	AV204	x.xx	-4000	10000 Pre-heating coil - Frost alarm	
Preheater coil	Set point	Standard	PHSet	°C	4x0259	x.xx	AV203	x.xx	-3000	2000 Setpoint for frost protection temperature alarm [1/100°C]	
Heating coil 2, Water	Set point	Standard	HW2UpStartPow	%	4x0260	x.xx	AV196	x.xx	0	10000 200 Pre-heating coil - Setpoint supply duct; just after pre-heating coil 5000 Heating coil 2 - Start-up output setpoint [1/100%]	
Heating coil 2, Water	Control	Standard	HW2PumpFunc		4x0261	x.xx	AV197	x.xx	0	3 Heating coil 2 Circulation pump function: 1 -> Pump runs constantly 2 -> Pump runs if heating temp. is > temp. setpoint for pump start (address = 261)	

Zone 2	Set point	Standard	ZM2_MaxSupTemp	4/0337	4.19	AV270	4.19	-4000	10000	ZoneModule 2 - Maximum Supply Temperature								
Zone 2	Set point	Standard	ZM2_CO2Set	4/0338	4.19	AV271	4.19	0	5000	ZoneModule 2 - Room CO2 Setpoint								
Zone 2	Set point	Standard	ZM2_RHSet	4/0339	4.19	AV272	4.19	0	10000	ZoneModule 2 - Room RH Setpoint								
Zone 2	Set point	Standard	ZM2_PIRMinFlow	4/0340	4.19	AV273	4.19	0	0	ZoneModule 2 - VAV Supply PIR Min Air Flow								
Zone 3	Set point	Standard	ZM3_MaxSupTemp	4/0341	4.19	AV274	4.19	-4000	10000	ZoneModule 3 - Room Temperature Setpoint								
Zone 3	Set point	Standard	ZM3_MaxSupTemp	4/0342	4.19	AV275	4.19	-4000	10000	ZoneModule 3 - Minimum Supply Temperature								
Zone 3	Set point	Standard	ZM3_CO2Set	4/0343	4.19	AV276	4.19	-4000	10000	ZoneModule 3 - Minimum Supply Temperature								
Zone 3	Set point	Standard	ZM3_RHSet	4/0344	4.19	AV277	4.19	0	5000	ZoneModule 3 - Room CO2 Setpoint								
Zone 3	Set point	Standard	ZM3_RHSet	4/0345	4.19	AV278	4.19	0	10000	ZoneModule 3 - Room RH Setpoint								
Zone 3	Set point	Standard	ZM3_PIRMinFlow	4/0346	4.19	AV279	4.19	0	0	ZoneModule 3 - VAV Supply PIR Min Air Flow								
Zone 4	Set point	Standard	ZM4_RoomTempSet	4/0347	4.19	AV280	4.19	-4000	10000	ZoneModule 4 - Room Temperature Setpoint								
Zone 4	Set point	Standard	ZM4_MaxSupTemp	4/0348	4.19	AV281	4.19	-4000	10000	ZoneModule 4 - Minimum Supply Temperature								
Zone 4	Set point	Standard	ZM4_MaxSupTemp	4/0349	4.19	AV282	4.19	-4000	10000	ZoneModule 4 - Maximum Supply Temperature								
Zone 4	Set point	Standard	ZM4_CO2Set	4/0350	4.19	AV283	4.19	0	5000	ZoneModule 4 - Room CO2 Setpoint								
Zone 4	Set point	Standard	ZM4_RHSat	4/0351	4.19	AV284	4.19	0	10000	ZoneModule 4 - Room RH Setpoint								
Zone 4	Set point	Standard	ZM4_PIRMinFlow	4/0352	4.19	AV285	4.19	0	0	ZoneModule 4 - VAV Supply PIR Min Air Flow								
Fan	Set point	Standard	SupFWRPrCSet	4/0353	6.10	AV253	6.10	100	10000	3500 Supply Motor Mediumspeed [1/100%], Fixed Fan Speed								
Fan	Set point	Standard	SupFWRPrCSet	4/0354	6.10	AV289	6.10	100	10000	2500 Supply Motor Lowspeed [1/100%], Fixed Fan Speed								
Fan	Set point	Standard	SupFHRPrCSet	4/0355	6.10	AV300	6.10	100	10000	3500 Extract Motor Highspeed [1/100%], Fixed Fan Speed								
Fan	Set point	Standard	ExFWRPrCSet	4/0356	6.10	AV301	6.10	100	10000	3500 Extract Motor Mediumspeed [1/100%], Fixed Fan Speed								
Fan	Set point	Standard	ExFWRPrCSet	4/0357	6.10	AV302	6.10	100	10000	2500 Extract Motor Lowspeed [1/100%], Fixed Fan Speed								
Fan	Set point	Standard	ExFWRPrCSet	4/0358	6.10	AV303	6.10	100	10000	3500 Extract Motor Mediumspeed [1/100%], Fixed Fan Speed								
Damper, Recirculation	Set point	Standard	RecMaxFresh	4/0359	6.10	AV304	6.10	3000	10000	10000 Max FreshAir part [1/100%]								
AHU controller	Control	Standard	BMSDrChfReg	4/0500	x.xx	AV244	x.xx	0	1000	11 = BMS stop								
										105 = BMS low speed								
										210 = BMS high speed								
										211 = BMS somnright cooling								
Temp. out door Temp. room	Current value Current value	Standard Standard	MBT_OutDoor MBT_Room1	4/0501 4/0502	x.xx x.xx	AV245 AV246	x.xx x.xx	-6000 -4000	10000 10000	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]																		