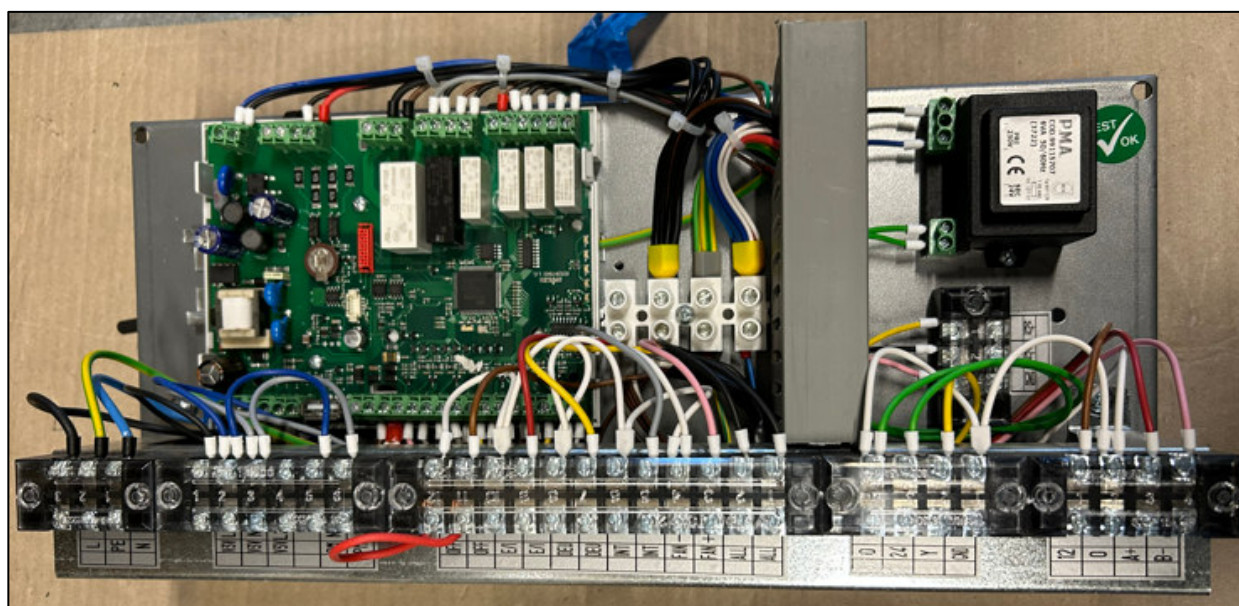


ANLEITUNG FÜR MODBUS RTU RS485 - ANSCHLUSS UND EINSTELLUNGEN



HRD+ H
HRD+ V

WOHNRAUM-LÜFTUNGSGERTÄT
MIT ENTFEUCHTUNGS-FUNKTION

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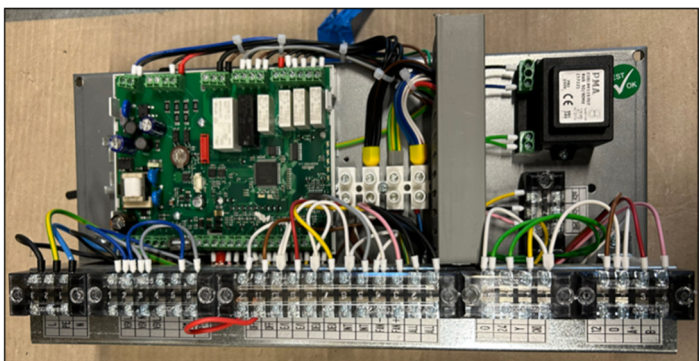
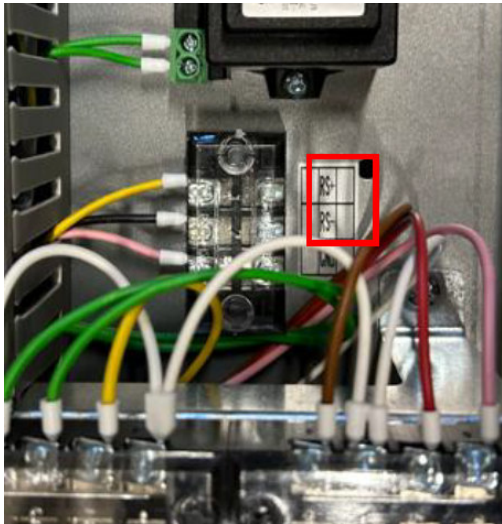
1 ALLGEMEINES

Diese Anleitung richtet sich ausschließlich an spezialisierte Programmierer, die mit derartigen Aufgaben vertraut sind. Für allgemeine Hinweise und grundlegende Sicherheitsregeln wird auf das entsprechende Handbuch verwiesen. Wichtige Hinweise zur Installation: Die Installation muss von qualifiziertem Fachpersonal durchgeführt werden. Andernfalls übernimmt der Hersteller keine Verantwortung für daraus resultierende Schäden.

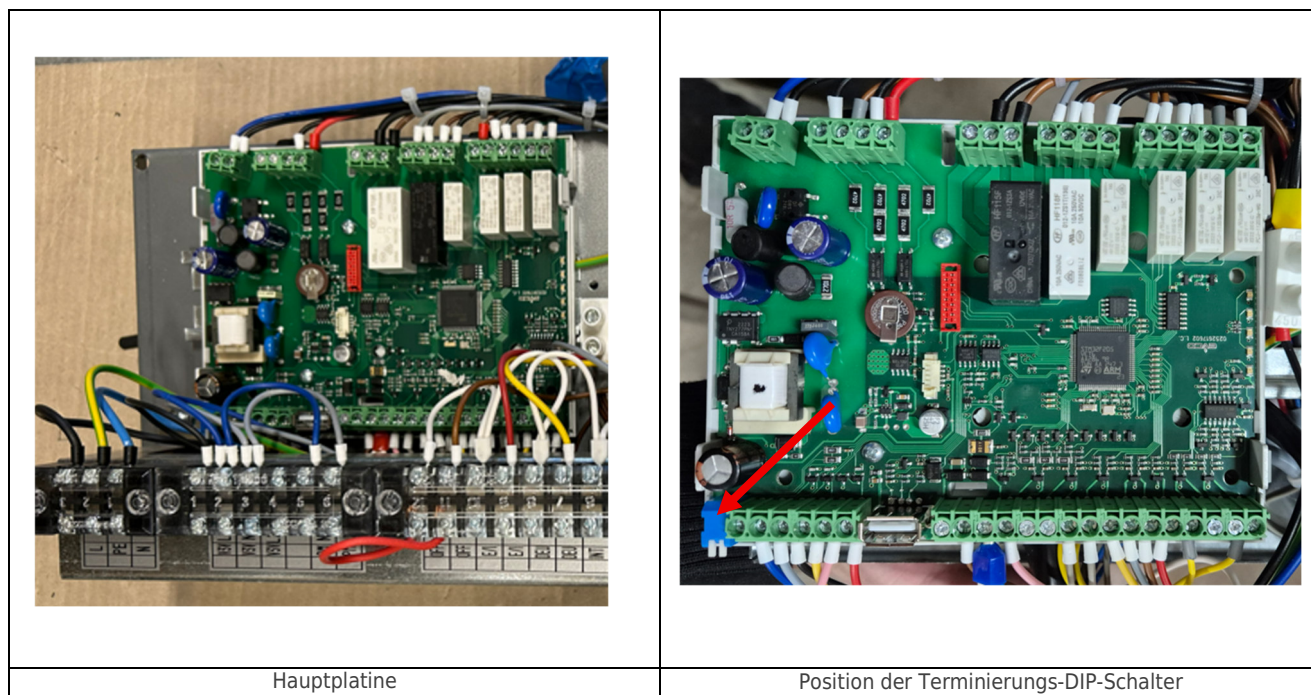
2 MODBUS-ANSCHLUSS

2.1 Anschluss der Modbus-Verbindung

Die in der Einheit enthaltene elektronische Steuerplatine ermöglicht die Verbindung mit einem seriellen Kommunikationsnetzwerk des Typs „Modicon Modbus“ RTU – RS 485.

	
Elektronik der Schalttafel-Version "K"	Detail-Ansicht der Klemmen für den seriellen Leitungsanschluss

2.2 Terminierung der Modbus-Verkabelung am HRD+ Gerät:



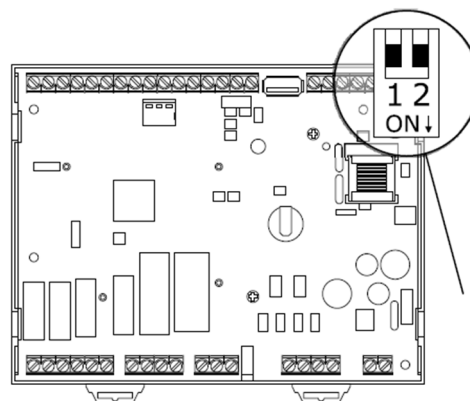
Auf der Hauptplatine im Gerät befinden sich diese DIP-Schalter für die Bus-Terminierung::

DIP-Schalter 1 – RS485 (Modbus RTU):

Wenn das Gerät der letzte Teilnehmer in der Busverkabelung ist, muss der DIP-Schalter 1 auf ON gestellt werden, um den Abschlusswiderstand zu aktivieren

DIP-Schalter 2 – CAN-Bus (CNU2 Display-Kommunikation):

Für die Kommunikation mit dem CNU2-Bedienmodul muss der DIP-Schalter 2 auf ON gestellt werden



2.3 Bus-Verkabelung

Die Modbus-Leitung muss von Stromleitungen getrennt verlaufen, ohne Abzweigungen verlegt werden und darf keine Sternverbindungen aufweisen. Für die Verbindung ist ein geschirmtes, verdrehtes Kabel zu verwenden, dessen Adern einen Mindestquerschnitt von 0,5 mm² aufweisen. Der Leitungsverlauf beginnt beim Master und führt über die angeschlossenen Geräte bis zur letzten Peripherie. Die maximale Kabellänge beträgt 1200 Meter. Der RS485-Anschluss ist polarisiert, weshalb die Kennzeichnung „+“ und „-“ an jedem angeschlossenen Gerät unbedingt zu beachten ist.

2.4 Kommunikations-Protokoll - Einstellungen

Das serielle Kommunikationsprotokoll basiert auf „Modicon Modbus“ RTU und wird mit folgenden Werks-Einstellungen ausgeliefert:

- **Modbus Adresse 1**
- **Baudrate 9600**
- **keine Parität (N)**
- **1 Stoppbit**

3 MODBUS REGISTER

Die folgende Tabelle zeigt die Adressen der einstellbaren Modbus-Parameter:

- **Addr. HEX:** Hexadezimale Adresse des Registers.
- **Addr. DEC:** Dezimale Adresse des Registers.
- **Name:** Bezeichnung des Registers.
- **Description:** Kurzbeschreibung des Parameters.
- **Default:** Werkseinstellung des Parameters.
- **Min:** Minimal einstellbarer Wert.
- **Max:** Maximal einstellbarer Wert.
- **Mode:** Typ des Registers, entweder nur lesbar (R/O) oder beschreibbar (R/W).
- **R/O:** 4 – Read input registers – 16 bit – big endian
- **R/W:** 3 – Read holding registers – 16 bit – big endian

Hinweis: alle Modbus-Register werden als Analogwerte ausgegeben. Auch Statusparameter mit den Werten 0 oder 1 werden als Analogwerte behandelt und sind keine Digitalregister

Modbus Grundeinstellungen

Addr HEX	Addr DEC	Name	Description	Default	Min	Max	Mode
0x06ED	1773	Modbus_Address	PH11 - Modbus address (1...247)	1	1	247	R/W
0x06EE	1774	Modbus_Baud	PH12 - Modbus baud rate (0=1200, 1=2400, 2=4800, 3=9600, 4=19200, 5=28800, 6=38400, 7=57600)	3	0	7	R/W
0x06EF	1775	Modbus_Parity	PH13 - Modbus parity (0=None, 1=Odd, 2=Even)	0	0	2	R/W
0x06F0	1776	Modbus_StopBit	PH14 - Modbus stop bit (0=1 stop bit, 1=2 stop bits)	0	0	1	R/W

Achtung:

Diese Einstellungen sind ausschließlich über das Fernbedienungspanel oder die Service-Software konfigurierbar. Anweisungen hierzu finden Sie in Abschnitt 4.

Modbus Funktionsfreigaben

Die in dieser Gruppe enthaltenen Parameter müssen zwingend passend konfiguriert werden, damit die Modbus-Befehle wirksam werden. Ohne diese Freigaben ignoriert das Gerät die geschriebenen Register. Die Kennzeichnung „by BMS“ in der Beschreibung bedeutet, dass die jeweilige Funktion durch ein Modbus-Master-Gerät gesteuert wird.

Hinweis zur ON/OFF-Steuerung: Ein OFF-Befehl hat stets Vorrang gegenüber anderen ON-Befehlen, unabhängig davon, ob der Befehl über einen Schaltkontakt, das Display oder Modbus erfolgt.

Addr HEX	Addr DEC	Name	Description	Default	Min	Max	Mode
0x06F1	1777	Enable_OnOffByDisplay	PH01 - Enable On/Off by Display (0=Disabled, 1=Enabled) <i>Muss auf 0=Disabled gestellt werden, wenn kein Display verwendet wird</i>	1	0	1	R/W
0x06F2	1778	Enable_OnOffByBMS	PH02 - Enable On/Off by BMS (0=Disabled, 1=Enabled) <i>Muss auf 1=Enabled gestellt werden, wenn Ein-/Ausschalten über Modbus möglich sein soll</i>	0	0	1	R/W
0x074D	1869	Enable_IntegByBMS	PH27 - Enable integration request by BMS (0=Disabled, 1=Enabled)	1	0	1	R/W
0x074E	1870	Enable_DehumByBMS	PH28 - Enable dehumidify request by BMS (0=Disabled, 1=Enabled)	1	0	1	R/W
0x070B	1803	T/H Probe Source	HA00 - Source for temp. / hum. probes (0=None, 6=CNU2 Display) <i>Muss auf 0=None gestellt werden, wenn kein Display verwendet wird</i>	6	0	6	R/W

Betriebsmodus

Dieser Abschnitt enthält die Register zur Steuerung der Betriebsfunktionen.

Addr HEX	Addr DEC	Name	Description	Default	Min	Max	Mode
0x0451	1105	Status_OnOff_byBMS	Unit On/Off request by BMS	0	0	1	R/W
0x0473	1139	Status_Integ_byBMS	Integration request by BMS	0	0	1	R/W
0x0474	1140	Status_Dehum_byBMS	Dehumidify request by BMS	0	0	1	R/W
0x062F	1583	Mode_OperatingMode	Summer/Winter mode setting 0=Summer, 1=Winter	-	0	1	R/O
0x0721	1825	DI4_Configuration	HB04 - Summer/Winter mode, change operating mode without display 4=Summer (DI4=N/O), 3=Winter (DI4=N/C)	4	0	46	R/W

Hinweis:

Der Saisonwechsel kann wahlweise über den digitalen Schalteingang oder über die Fernbedienung erfolgen.

Ist eine Display-Fernbedienung vorhanden, hat diese Vorrang gegenüber dem Schalteingang.

Dieser Vorrang kann mit dem Prioritätsregister 0x0756 geändert werden.

Falls keine Fernbedienung vorhanden ist und die Steuerung über Modbus erfolgen soll, verwenden Sie Register 0x0721 für den Saisonwechsel.

Dieses ändert den Schaltkontakt DI4 von einem Schließer (N/O) zu einem Öffner (N/C), um so den Wintermodus einzuschalten.

Verwenden Sie Register 0x062F als Status-Feedback.

Achtung: wenn Sie andere Werte als 3 oder 4 in Register 0x0721 schreiben, hat dies einen Alarm AL25 zur Folge.

Addr HEX	Addr DEC	Name	Description	Default	Min	Max	Mode
0x0756	1878	PriorityChangeMode_Dis play	PC11 Change operating mode priority with display connected (0=Display, 1=DI/ Digital IN)	0	0	1	R/W

Regler-Zielwerte

Die Soll-Werte sind nur wirksam, wenn das Display vorhanden ist oder externe Sensoren angeschlossen sind.

Addr HEX	Addr DEC	Name	Description	Default	Min	Max	Mode
0x0630	1584	SEtC_SummerSetpoint	SEtC - Summer setpoint	24.0	- 15.0	158.0	R/W
0x0631	1585	SEtH_WinterSetpoint	SEtH - Winter setpoint	20.0	- 15.0	158.0	R/W
0x0632	1586	PU01_Humidity_Setpoint	PU01 - Humidity setpoint	55	0	100	R/W

Verwaltung der Grenzwerte für hohe Luftfeuchtigkeit AL02

Addr HEX	Addr DEC	Name	Description	Default	Min	Max	Mode
0x06C7	1735	Setpoint_HighHumWarning	PA19 - High humidity warning setpoint	70	0	100	R/W
0x0755	1877	PA58_MaxTime_DehumByDI	PA58 - Max time dehumidify by DI for warning	999	0	999	R/W
0x06C9	1737	PA21_OutbandTime_HighHumAlarm	PA21 - High humidity warning outband time	60	0	999	R/W

PA58 Funktion: Löst die interne Warnbedingung aus, wenn die Entfeuchtung über den Schalteingang aktiviert ist und länger als die eingestellte Zeit (Minuten) aktiv ist.

PA21 Funktion: Löst Alarm AL02 aus, wenn die interne Warnbedingung länger als die eingestellte Zeit (Minuten) vorliegt.

Lüftergeschwindigkeit

Register zur Einstellung der minimalen und maximalen Drehzahlbereiche der Lüfter in den verschiedenen Betriebsmodi.

Achtung: Die Werte für die Lüftergeschwindigkeit müssen mit zwei Dezimalstellen eingegeben werden. Beispiel: Für 40 % schreiben Sie 4000.

Addr HEX	Addr DEC	Name	Description	Default	Min	Max	Mode
0x073E	1854	MinReturnSpeedFan	PF29 - Return fan min speed in any mode	20.00	0.00	100.00	R/W
0x073F	1855	MaxReturnSpeedFan	PF30 - Return fan max speed in any mode	75.00	0.00	100.00	R/W
0x066C	1644	MinSupplySpeedFan_VMC	PF07 - Supply fan min speed in VMC mode	20.00	0.00	100.00	R/W
0x066D	1645	MaxSupplySpeedFan_VMC	PF08 - Supply fan max speed in VMC mode	60.00	0.00	100.00	R/W
0x073C	1852	MinSupplySpeedFan_Integ	PF27 - Supply fan min speed in integration mode	50.00	0.00	100.00	R/W
0x066E	1646	MaxSupplySpeedFan_Integ	PF09 - Supply fan max speed in integration mode	85.00	0.00	100.00	R/W
0x073D	1853	MinSupplySpeedFan_Dehum	PF28 - Supply fan min speed in dehumidify	50.00	0.00	100.00	R/W
0x066F	1647	MaxSupplySpeedFan_Dehum	PF10 - Supply fan max speed in dehumidify	85.00	0.00	100.00	R/W
0x045A	1114	SupplyFan_ManualRequest	Supply fan - manual display request (read only)	-	0.00	100.00	R/O
0x0470	1136	ReturnFan_ManualRequest	Return fan - manual display request (read only)	-	0.00	100.00	R/O
0x045C	1116	SupplyFan_RemoteRequest	Supply fan - potentiometer request (read only)	-	0.00	100.00	R/O
0x0472	1138	ReturnFan_RemoteRequest	Return fan - potentiometer request (read only)	-	0.00	100.00	R/O

Free-Cooling Einstellungen

Addr HEX	Addr DEC	Name	Description	Default	Min	Max	Mode
0x06A7	1703	SetpointFreeCoolingHeating	PS06 - Free-Cooling/Heating setpoint	4.0	0	20.0	R/W
0x06A8	1704	DiffFreeCoolingHeating	PS07 - Free-Cooling/Heating differential	2.0	0	20.0	R/W

Einstellungen für die Außenluftklappe

Addr HEX	Addr DEC	Name	Description	Default	Min	Max	Mode
0x0776	1910	ExtDamperLimit_Diff	PA61 - External Damper Limitation Humidity Differential to PU01	15	0	20	R/W
0x0777	1911	MaxTime_DEU_ExtDampLimit	PA62 - Maximum dehumidification time from DI/BMS for external damper limitation	90	0	999	R/W
0x06C9	1737	MinExtDamperMod	PS04 - Modulating external damper min opening	20.00	0.00	PS05	R/W

Einstellungen für den Kreuzstromwärmetauscher-Frostschutz

Addr HEX	Addr DEC	Name	Description	Default	Min	Max	Mode
0x06AD	1709	SetPoint_RecoverDefrost	Pr03 - Heat exchanger defrost setpoint	4.0	-15.0	70.0	R/W
0x06B0	1712	Setpoint_BypassDefrost	Pr06 - Heat exchanger defrost by bypass setpoint	2.0	-15.0	70.0	R/W
0x067B	1659	DeltaReturnFan_Defrost	PF22 - max. fan delta perc. in defrost mode	10.00	0.00	100.00	R/W

Abfrage der Sensor-Werte

Register zur Abfrage der internen Sensorwerte.

Addr HEX	Addr DEC	Name	Description	Min	Max	Mode
0x01F3	499	AI_TreturnRoom	Return/Room temperature probe on wall display	-3276.8	3276.7	R/O
0x01F9	505	AI_HretRoom	Return/Room humidity probe on wall display	-32768	32767	R/O
0x01F4	500	AI_Toutdoor	Outdoor Air temperature probe	-3276.8	3276.7	R/O
0x01F6	502	AI_Texhaust	Exhaust Air temperature probe	-3276.8	3276.7	R/O
0x01FE	510	AI_TfreeCooling	FreeCooling (recirculation room temperature) probe	-3276.8	3276.7	R/O
0x01FF	511	AI_Tevaporation	Evaporation temperature probe	-3276.8	3276.7	R/O

Die Werte für Register 0x01F3 und 0x01F9 können nur ausgelesen werden, wenn das CNU Display verwendet wird.

Status der digitalen Schalteingänge

aktueller Zustand der digitalen Eingänge an der Klemmleiste

Addr HEX	Addr DEC	Name	Description	Min	Max	Mode
0x0101	257	Packed_logicDI1	bit0-1=Remote on/off bit2-3=Summer/Winter bit4-5=Dehum request bit6-7=Integration request bit8-9=Not Used bit10-11=Not Used bit12-13=Not Used bit14-15=Not Used	0	65535	R/O

Status der digitalen Schaltausgänge

aktueller Zustand der internen und externen digitalen Ausgänge

Addr HEX	Addr DEC	Name	Description	Min	Max	Mode
0x0180	384	Packed_DO1	bit0-1=Supply fan bit2-3=Return fan bit4-5=Compressor (K6) bit6-7=External damper bit8-9=Recirculation damper (K1) bit10-11=External water flow valve or pump (K5) bit12-13=Water condensation valve (K4) (0=Integration, 1=Dehumidify) bit14-15=Not Used	0	65535	R/O
0x0181	385	Packed_DO2	bit0-1=Not Used bit2-3=Bypass Free-Cooling (K3) bit4-5=Not Used bit6-7=Not Used bit8-9=Alarm (K2) bit10-11=Not Used bit12-13=Not Used	0	65535	R/O

Status der analogen Ausgänge

aktueller Zustand der internen, analogen Ausgänge

Addr HEX	Addr DEC	Name	Description	Min	Max	Mode
0x027F	639	outAO_SupplyFan	Analog Out Signal - Supply Fan %	0.00	100.00	R/O
0x0280	640	outAO_ReturnFan	Analog Out Signal - Return Fan %	0.00	100.00	R/O
0x0282	642	outAO_ExternalDamper	Analog Out Signal - External Damper %	0.00	100.00	R/O
0x0281	641	outAO_Cmp	Analog Out Signal - Compressor %	0.00	100.00	R/O

Betriebsstatus der Einheit

aktueller Betriebszustand und Zustand der internen Komponenten

Addr HEX	Addr DEC	Name	Description	Min	Max	Mode
0x0450	1104	sm_UnitStatus	Unit status 0=OFF by Display 1=OFF by DI 2=OFF by BMS 3=OFF by scheduler 4=OFF by RTC 5=ON	0	5	R/O
0x0456	1110	ModeStatus	Operating mode 0=Summer manual 1=Winter manual 2=Summer auto 3=Winter auto 4=Summer DI 5=Winter DI	0	5	R/O
0x0457	1111	Actual_Setpoint	Actual room setpoint	-15.0	158.0	R/O
0x045F	1119	SupplyFan_Status	Supply fan status 0=Disable 1=OFF 2=Wait ON 3=ON, 4=Wait OFF 5=Alarm	0	5	R/O
0x0460	1120	ReturnFan_Status	Supply fan status 0=Disable 1=OFF 2=Wait ON 3=ON, 4=Wait OFF 5=Alarm	0	5	R/O
0x0461	1121	DehumRequest	Dehumidify request 0=NO 1=YES	0	1	R/O
0x0462	1122	CmpStatus	Compressor status 0=Disable 1=Alarm 2=Manual 3=Wait ON 4=ON 5=Wait OFF 6=OFF	0	6	R/O
0x0467	1127	ExtDamperModulating	Modulating external damper position	0.00	100.00	R/O
0x0468	1128	ExtDamper_Status	External damper status 0=Disable 1=OFF 2=Wait OFF 3=ON	0	3	R/O
0x046C	1132	Request_FreeCoolingHeating	Free-Cooling / Free-Heating request 0=NO 1=YES	0	1	R/O
0x046E	1134	outDO_RecircDamper	Recirculation damper status 0=OFF 1=ON 2=Disable	0	2	R/O

Filterverschmutzung

Parameter für die Wartungsfrequenz der Filter und für den aktuellen Zählerstand im Vergleich zum eingestellten Grenzwert.

Die Werte werden in h x10 angegeben. Beispiel: 0x0642-Limit Wert: 150.0 = 1500h

Abfrage des aktuellen Status seit dem letzten Reset: 0x0644 Wert: 100.0 = 1000h (Alarm AL22 kommt nach weiteren 500h Lüfterbetrieb)

Addr HEX	Addr DEC	Name	Description	Default	Min	Max	Mode
0x0642	1602	Limit_FansHours	PM00 - Fans working hours limit, limit value to trigger the Alarm	2000.0	0.0	9999.0	R/W
0x0644	1604	SupplyFan_Hours	PM01 - Supply fan working hours, hour counter current status since last reset	0.0	0.0	9999.0	R/W
0x0646	1606	ReturnFan_Hours	PM02 - Return fan working hours, hour counter current status since last reset	0.0	0.0	9999.0	R/W

Um den Filter-Alarm AL22 zurückzusetzen, muss der Wert 0 in Adresse 0x0644 und 0x0646 geschrieben werden

Abfrage aktuelle Alarme

Addr HEX	Addr DEC	Name	Description	Min	Max	Mode
0x0300	768	PackedAlarm_1	bit00=AL01 bit01=AL02 bit02=AL03 bit03=AL04 bit04=AL05 bit05=AL06 bit06=AL07 bit07=AL08 bit08=AL09 bit09=AL10 bit10=AL11 bit11=AL12 bit12=AL13 bit13=AL14 bit14=AL15 bit15=AL16 for the alarm details see the last page	0	65535	R/O
0x0301	769	PackedAlarm_2	bit00=AL17 bit01=AL18 bit02=AL19 bit03=AL20 bit04=AL21 bit05=AL22 bit06=AL23 bit07=AL24 bit08=AL25 bit09=AL26 bit10=AL27 bit11=AL28 bit12=AL29 bit13=AL30 bit14=AL31 bit15=AL32 for the alarm details see the last page	0	65535	R/O
0x0302	770	PackedAlarm_3	bit00=AL33 bit01=AL34 bit02=AL35 bit03=AL36 bit04=AL37 bit05=AL38 bit06=AL39 for the alarm details see the last page.	0	65535	R/O
0x044F	1103	OR_Alarms	Active alarms - Cumulative alarm register	0	1	R/O

Alarm-Reset

Register zum Zurücksetzen von Alarmen

Addr HEX	Addr DEC	Name	Description	Default	Min	Max	Mode
0x030C	780	BMS_AL02	Reset alarm AL02 (hohe Luftfeuchtigkeit)	0	0	1	R/W
0x0311	785	BMS_AL11	Reset alarm AL11 (Kältekreis Niederdruck)	0	0	1	R/W
0x0312	786	BMS_AL12	Reset alarm AL12 (Kältekreis Hochdruck)	0	0	1	R/W
0x0317	791	BMS_AL18	Reset alarm AL18 (Allgemeiner Alarm)	0	0	1	R/W

Um den Filter-Alarm AL22 zurückzusetzen, muss der Wert 0 in Adresse 0x0644 und 0x0646 geschrieben werden

4 EINSTELLUNGEN DER MODBUS-PARAMETER ÜBER DIE FERNBEDINUNG

Drücken die OK-Taste 2 Sekunden lang, um zum Auswahl-Menü zu gelangen. Hier wählen Sie den Punkt „**Installer menu**“ aus und drücken Sie „OK“

Dieses Menü ist Passwort-geschützt:

Für den Zugriff muss das Passwort „2“ eingegeben werden

Blättern Sie im Menü nach rechts und wählen Sie den Punkt „MODBUS“ aus.

Jetzt werden eine Reihe von Parametern angezeigt, die für die Modbus-Kommunikation relevant sind:

PH11 - Modbus-Adresse: stellen Sie die gewünschte Modbus Adresse des Gerätes ein
1...247

PH12 - Modbus Baudrate:

0=1200
1=2400
2=4800
3=9600
4=19200
5=28800
6=38400
7=57600

PH13 - Modbus Parität:

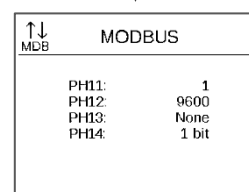
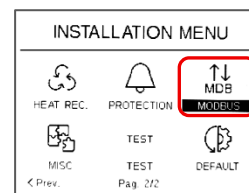
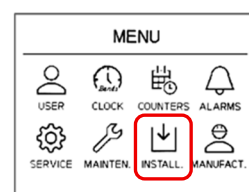
0=Keine
1=Ungerade
2=Gerade

PH14 - Modbus Stopbits:

0=1 Stopbit
1=2 Stopbits

Um das Menü zu verlassen, drücken Sie die Taste ON/OFF

Nachdem die Modbus-Einstellungen geändert wurden, trennen Sie die Stromversorgung und starten das Gerät erneut, damit die Einstellungen übernommen werden.



5 ALARME

CODE	BESCHREIBUNG DES ALARMS	RESET	FOLGEN
AL02	Alarm bei hoher Luftfeuchtigkeit	Automatisch	Schaltet alle Komponenten aus, wenn PA57=1 Nur Anzeige, wenn PA57=0
AL03	Hohe Wassertemperatur im Sommer	Automatisch	Deaktiviert die Sommerkühlung (Integration) Deaktiviert die Entfeuchtung bei Parametereinstellung PU03=0
AL04	Niedrige Wassertemperatur im Winter	Automatisch	Deaktiviert die Winterheizung (Integration)
AL11	Niederdruckschalter des Kompressors oder Frostschutzthermostatschalter	Automatisch Manuell wenn öfter als 5- mal pro Stunde (Parameter PA32)	Stoppt den Kompressor
AL12	Hochdruckschalter des Kompressors.	Automatisch Manuell wenn öfter als 5- mal pro Stunde (Parameter PA35)	Stoppt den Kompressor
AL16	Frostschutz - Wasserkreis	Automatisch	Stoppt den Lüfter
AL18	Allgemeiner Alarm	Manuell	Schaltet alle Komponenten aus
AL19	Allgemeine Warnung	Automatisch	Nur Anzeige
AL22	Alarm bei verschmutzten Filtern	Manuell	Nur Anzeige
AL25	Fehler bei der I/O-Konfiguration	Automatisch	Schaltet alle Komponenten aus
AL26	RTC-Uhr defekt oder getrennt	Automatisch	Deaktiviert die Steuerung nach Zeitprogrammen
AL28	Raumluft-Temperaturfühler defekt oder abgeklemmt	Automatisch	Deaktiviert die Regelungen, die davon abhängen
AL29	Außentemperaturfühler defekt oder abgeklemmt	Automatisch	Deaktiviert die Regelungen, die davon abhängen
AL31	Fortlufttemperaturfühler defekt oder abgeklemmt	Automatisch	Deaktiviert die Regelungen, die davon abhängen
AL34	Raumluft-Feuchtefühler defekt oder abgeklemmt	Automatisch	Deaktiviert die Regelungen, die davon abhängen
AL36	Lüfter-Potentiometer defekt oder abgeklemmt	Automatisch	Deaktiviert die Regelungen, die davon abhängen
AL36	Lüfter-Potentiometer defekt oder abgeklemmt	Automatisch	Deaktiviert die Regelungen, die davon abhängen
AL38	Free-Cooling-Fühler defekt oder abgeklemmt	Automatisch	Deaktiviert die Regelungen, die davon abhängen
AL39	Verdampfer-Temperaturfühler defekt oder abgeklemmt	Automatisch	Deaktiviert die Regelungen, die davon abhängen

6 FULL MODBUS REGISTER LIST

Addr HEX	Addr DEC	Name	Min	Max	Description	Mode
0x0100	256	Packed_DI	0	65535	bit00=DI01, bit01=DI02, bit02=DI03, bit03=DI04, bit04=DI01 Exp, bit05=DI02 Exp, bit06=DI03 Exp	R/O
0x0101	257	Packed_logicDI1	0	65535	bit0-1=Remote on/off, bit2-3=Summer/Winter, bit4-5=Dehum request, bit6-7=Thermo request, bit8-9=Water flow switch, bit10-11=Supply fan flow switch, bit12-13=Return fan flow switch, bit14-15=Supply air filter	R/O
0x0102	258	Packed_logicDI2	0	65535	bit0-1=Return air filter, bit2-3=Forced fan, bit4-5=Thermal supply fan, bit6-7=Thermal return fan, bit8-9=Tacho supply fan, bit10-11=Tacho return fan, bit12-13=Low pressure, bit14-15=High pressure	R/O
0x0103	259	Packed_logicDI3	0	65535	bit0-1=Thermal compressor, bit2-3=Fire/Smoke alarm, bit4-5=Phases sequence, bit6-7=Antifreeze, bit8-9=Generic alarm, bit10-11=Generic warning, bit12-13=Economy, bit14-15=Only ventilation	R/O
0x0180	384	Packed_DO1	0	65535	bit0-1=Supply fan, bit2-3=Return fan, bit4-5=Compressor, bit6-7=External damper, bit8-9=Recirculation damper, bit10-11=Water flow valve, bit12-13=Water condensation valve, bit14-15=Air condensation valve	R/O
0x0181	385	Packed_DO2	0	65535	bit0-1=Heat exchanger, bit2-3=Bypass Free-Cooling, bit4-5=On/Off, bit6-7=Summer/Winter, bit8-9=Serious alarm, bit10-11=Light alarm, bit12-13=High humidity	R/O
0x01F3	499	AI_TreturnRoom	-3276.8	3276.7	Return/Room temperature probe	R/O
0x01F4	500	AI_Toutdoor	-3276.8	3276.7	Outdoor temperature probe	R/O
0x01F5	501	AI_Twater	-3276.8	3276.7	Water temperature probe	R/O
0x01F6	502	AI_Texhaust	-3276.8	3276.7	Exhaust temperature probe	R/O
0x01F7	503	AI_Tdischarge	-3276.8	3276.7	Discharge temperature probe	R/O
0x01F8	504	AI_TcmpDefrost	-3276.8	3276.7	Compressor defrost temperature probe	R/O
0x01F9	505	AI_HretRoom	-3276.8	3276.7	Return/Room humidity probe	R/O
0x01FA	506	AI_AirQuality	-3276.8	3276.7	Air quality probe	R/O
0x01FB	507	AI_RemoteSupply	-327.68	327.67	Remote supply fan potentiometer	R/O
0x01FC	508	AI_HighPressure	-3276.8	3276.7	High pressure condenser probe	R/O
0x01FD	509	AI_RemoteReturn	-327.68	327.67	Remote return fan potentiometer	R/O
0x01FE	510	AI_TfreeCooling	-3276.8	3276.7	Free-Cooling temperature probe	R/O
0x01FF	511	AI_Tevaporation	-3276.8	3276.7	Evaporation temperature probe	R/O
0x0200	512	AI_EvaporationPressure	-3276.8	3276.7	Evaporation pressure probe	R/O
0x027F	639	outAO_SupplyFan	0.00	100.00	AO Supply fan	R/O
0x0280	640	outAO_ReturnFan	0.00	100.00	AO Return fan	R/O

0x0281	641	outAO_Cmp	0.00	100.00	AO Compressor	R/O
0x0282	642	outAO_ExternalDamper	0.00	100.00	AO External damper	R/O
0x0300	768	PackedAlarm_1	0	65535	bit00=AL01, bit01=AL02, bit02=AL03, bit03=AL04, bit04=AL05, bit05=AL06, bit06=AL07, bit07=AL08, bit08=AL09, bit09=AL10, bit10=AL11, bit11=AL12, bit12=AL13, bit13=AL14, bit14=AL15, bit15=AL16	R/O
0x0301	769	PackedAlarm_2	0	65535	bit00=AL17, bit01=AL18, bit02=AL19, bit03=AL20, bit04=AL21, bit05=AL22, bit06=AL23, bit07=AL24, bit08=AL25, bit09=AL26, bit10=AL27, bit11=AL28, bit12=AL29, bit13=AL30, bit14=AL31, bit15=AL32	R/O
0x0302	770	PackedAlarm_3	0	65535	bit00=AL33, bit01=AL34, bit02=AL35, bit03=Reserved, bit04=AL37, bit05=AL38, bit06=AL39	R/O
0x030B	779	BMS_AL01	0	1	Reset alarm AL01	R/W
0x030C	780	BMS_AL02	0	1	Reset alarm AL02	R/W
0x030D	781	BMS_AL07	0	1	Reset alarm AL07	R/W
0x030E	782	BMS_AL08	0	1	Reset alarm AL08	R/W
0x030F	783	BMS_AL09	0	1	Reset alarm AL09	R/W
0x0310	784	BMS_AL10	0	1	Reset alarm AL10	R/W
0x0311	785	BMS_AL11	0	1	Reset alarm AL11	R/W
0x0312	786	BMS_AL12	0	1	Reset alarm AL12	R/W
0x0313	787	BMS_AL13	0	1	Reset alarm AL13	R/W
0x0314	788	BMS_AL14	0	1	Reset alarm AL14	R/W
0x0315	789	BMS_AL15	0	1	Reset alarm AL15	R/W
0x0316	790	BMS_AL17	0	1	Reset alarm AL17	R/W
0x0317	791	BMS_AL18	0	1	Reset alarm AL18	R/W
0x0318	792	BMS_AL19	0	1	Reset alarm AL19	R/W
0x0319	793	BMS_AL21	0	1	Reset alarm AL21	R/W
0x031A	794	BMS_AL26	0	1	Reset alarm AL26	R/W
0x044D	1101	CLOCK_RTC (Low)	01.01.2000	19/01/2068 03:14:07	Real Time Clock	R/W
0x044E	1102	CLOCK_RTC (High)				
0x044F	1103	OR_Alarms	0	1	Active alarms	R/O
0x0450	1104	sm_UnitStatus	0	5	Unit status (0=OFF, 1=OFF DI, 2=OFF BMS, 3=OFF scheduler, 4=OFF RTC, 5=ON)	R/O
0x0451	1105	Status_OnOff_bySUP	0	1	Unit On/Off by supervisor	R/W
0x0452	1106	ActualBand_TB	0	6	Actual time bands (0=Disable, 1=OFF, 2=Comfort, 3=Economy, 4=Night, 5=Holiday, 6=Economy DI)	R/O
0x0453	1107	StartHoliday_BMS	0	1	Start holiday command	R/W
0x0454	1108	Holiday_end (Low)	01.01.2000	19/01/2068 03:14:07	Holiday end date	R/O
0x0455	1109	Holiday_end (High)				
0x0456	1110	ModeStatus	0	5	Operating mode (0=Summer manual, 1=Winter manual, 2=Summer auto, 3=Winter auto, 4=Summer DI, 5=Winter DI)	R/O
0x0457	1111	Actual_Setpoint	-15.0	158.0	Actual room setpoint	R/O
0x0458	1112	FanIntegration_Request	0.00	100.00	Fans integration request	R/O
0x0459	1113	Supply_AirQualityRequest	0.00	100.00	Supply fan air quality request	R/O

0x045A	1114	Supply_ManualRequest	0.00	100.00	Supply fan manual request	R/O
0x045B	1115	Supply_TimeBandsRequest	0.00	100.00	Supply fan time bands request	R/O
0x045C	1116	Supply_RemoteRequest	0.00	100.00	Supply fan potentiometer request	R/O
0x045D	1117	actRPMsupplyFan	0	65535	Supply fan actual rpm	R/O
0x045E	1118	actRPMreturnFan	0	65535	Return fan actual rpm	R/O
0x045F	1119	SupplyFan_Status	0	5	Supply fan status (0=Disable, 1=OFF, 2=Wait ON, 3=ON, 4=Wait OFF, 5=Alarm)	R/O
0x0460	1120	ReturnFan_Status	0	5	Return fan status (0=Disable, 1=OFF, 2=Wait ON, 3=ON, 4=Wait OFF, 5=Alarm)	R/O
0x0461	1121	DehumRequest	0	1	Dehumidify request	R/O
0x0462	1122	CmpStatus	0	6	Compressor status (0=Disable, 1=Alarm, 2=Manual, 3=Wait ON, 4=ON, 5=Wait OFF, 6=OFF)	R/O
0x0463	1123	DefrostStatus	0	2	Compressor defrost status (0=OFF, 1=ON, 2=Dripping)	R/O
0x0464	1124	outDO_WaterCond	0	2	Water condenser valve status (0=OFF, 1=ON, 2=Disable)	R/O
0x0465	1125	outDO_AirCond	0	2	Air condenser valve status (0=OFF, 1=ON, 2=Disable)	R/O
0x0466	1126	outDO_WaterFlow	0	2	Water flow valve status (0=OFF, 1=ON, 2=Disable)	R/O
0x0467	1127	ExtDamperModulating	0.00	100.00	Modulating external damper position	R/O
0x0468	1128	ExtDamper_Status	0	3	External damper status (0=Disable, 1=OFF, 2=Wait OFF, 3=ON)	R/O
0x0469	1129	Status_HeatExchanger	0	4	Heat exchanger status (0=Disable, 1=OFF, 2=OFF defrost, 3=OFF Free-Cooling / Free- Heating, 4=ON)	R/O
0x046A	1130	tempRecover	-3276.8	3276.7	Heat exchanger temperature	R/O
0x046B	1131	Efficiency_HeatExchanger	-327.68	327.67	Heat exchanger efficiency	R/O
0x046C	1132	Request_FreeCoolingHeating	0	1	Free-Cooling / Free-Heating	R/O
0x046D	1133	Preheating	0	1	Pre-heating function	R/O
0x046E	1134	outDO_RecircDamper	0	2	Recirculation damper status (0=OFF, 1=ON, 2=Disable)	R/O
0x046F	1135	Return_AirQualityRequest	0.00	100.00	Return fan air quality request	R/O
0x0470	1136	Return_ManualRequest	0.00	100.00	Return fan manual request	R/O
0x0471	1137	Return_TimeBandsRequest	0.00	100.00	Return fan time bands request	R/O
0x0472	1138	Return_RemoteRequest	0.00	100.00	Return fan potentiometer request	R/O
0x0473	1139	Status_Integ_byBMS	0	1	Integration request by BMS	R/W
0x0474	1140	Status_DeHum_byBMS	0	1	Dehumidify request by BMS	R/W
0x05D9	1497	Holiday_Days	0	255	Holiday period days	R/W
0x05DA	1498	Holiday_Hours	0	23	Holiday period hours	R/W
0x05DB	1499	F1_Monday_p1	0	4	Monday F1 mode (0=Disable, 1=OFF, 2=Comfort, 3=Economy, 4=Night)	R/W
0x05DC	1500	F1_Monday_h1 (Low)	0:00:00	23:59:59	Monday F1 starting hours	R/W
0x05DD	1501	F1_Monday_h1 (High)				
0x05DE	1502	F2_Monday_p2	0	4	Monday F2 mode (0=Disable, 1=OFF, 2=Comfort, 3=Economy, 4=Night)	R/W
0x05DF	1503	F2_Monday_h2 (Low)	0:00:00	23:59:59	Monday F2 starting hours	R/W
0x05E0	1504	F2_Monday_h2 (High)				

0x05E1	1505	F3_Monday_p3	0	4	Monday F3 mode (0=Disable, 1=OFF, 2=Comfort, 3=Economy, 4=Night)	R/W
0x05E2	1506	F3_Monday_h3 (Low)	0:00:00	23:59:59	Monday F3 starting hours	R/W
0x05E3	1507	F3_Monday_h3 (High)				
0x05E4	1508	F4_Monday_p4	0	4	Monday F4 mode (0=Disable, 1=OFF, 2=Comfort, 3=Economy, 4=Night)	R/W
0x05E5	1509	F4_Monday_h4 (Low)	0:00:00	23:59:59	Monday F4 starting hours	R/W
0x05E6	1510	F4_Monday_h4 (High)				
0x05E7	1511	F1_Tuesday_p1	0	4	Tuesday F1 mode (0=Disable, 1=OFF, 2=Comfort, 3=Economy, 4=Night)	R/W
0x05E8	1512	F1_Tuesday_h1 (Low)	0:00:00	23:59:59	Tuesday F1 starting hours	R/W
0x05E9	1513	F1_Tuesday_h1 (High)				
0x05EA	1514	F2_Tuesday_p2	0	4	Tuesday F2 mode (0=Disable, 1=OFF, 2=Comfort, 3=Economy, 4=Night)	R/W
0x05EB	1515	F2_Tuesday_h2 (Low)	0:00:00	23:59:59	Tuesday F2 starting hours	R/W
0x05EC	1516	F2_Tuesday_h2 (High)				
0x05ED	1517	F3_Tuesday_p3	0	4	Tuesday F3 mode (0=Disable, 1=OFF, 2=Comfort, 3=Economy, 4=Night)	R/W
0x05EE	1518	F3_Tuesday_h3 (Low)	0:00:00	23:59:59	Tuesday F3 starting hours	R/W
0x05EF	1519	F3_Tuesday_h3 (High)				
0x05F0	1520	F4_Tuesday_p4	0	4	Tuesday F4 mode (0=Disable, 1=OFF, 2=Comfort, 3=Economy, 4=Night)	R/W
0x05F1	1521	F4_Tuesday_h4 (Low)	0:00:00	23:59:59	Tuesday F4 starting hours	R/W
0x05F2	1522	F4_Tuesday_h4 (High)				
0x05F3	1523	F1_Wednesday_p1	0	4	Wednesday F1 mode (0=Disable, 1=OFF, 2=Comfort, 3=Economy, 4=Night)	R/W
0x05F4	1524	F1_Wednesday_h1 (Low)	0:00:00	23:59:59	Wednesday F1 starting hours	R/W
0x05F5	1525	F1_Wednesday_h1 (High)				
0x05F6	1526	F2_Wednesday_p2	0	4	Wednesday F2 mode (0=Disable, 1=OFF, 2=Comfort, 3=Economy, 4=Night)	R/W
0x05F7	1527	F2_Wednesday_h2 (Low)	0:00:00	23:59:59	Wednesday F2 starting hours	R/W
0x05F8	1528	F2_Wednesday_h2 (High)				
0x05F9	1529	F3_Wednesday_p3	0	4	Wednesday F3 mode (0=Disable, 1=OFF, 2=Comfort, 3=Economy, 4=Night)	R/W
0x05FA	1530	F3_Wednesday_h3 (Low)	0:00:00	23:59:59	Wednesday F3 starting hours	R/W
0x05FB	1531	F3_Wednesday_h3 (High)				
0x05FC	1532	F4_Wednesday_p4	0	4	Wednesday F4 mode (0=Disable, 1=OFF, 2=Comfort, 3=Economy, 4=Night)	R/W
0x05FD	1533	F4_Wednesday_h4 (Low)	0:00:00	23:59:59	Wednesday F4 starting hours	R/W
0x05FE	1534	F4_Wednesday_h4 (High)				
0x05FF	1535	F1_Thursday_p1	0	4	Thursday F1 mode (0=Disable, 1=OFF, 2=Comfort, 3=Economy, 4=Night)	R/W
0x0600	1536	F1_Thursday_h1 (Low)	0:00:00	23:59:59	Thursday F1 starting hours	R/W
0x0601	1537	F1_Thursday_h1 (High)				
0x0602	1538	F2_Thursday_p2	0	4	Thursday F2 mode (0=Disable, 1=OFF, 2=Comfort, 3=Economy, 4=Night)	R/W
0x0603	1539	F2_Thursday_h2 (Low)	0:00:00	23:59:59	Thursday F2 starting hours	R/W
0x0604	1540	F2_Thursday_h2 (High)				

0x0605	1541	F3_Thursday_p3	0	4	Thursday F3 mode (0=Disable, 1=OFF, 2=Comfort, 3=Economy, 4=Night)	R/W
0x0606	1542	F3_Thursday_h3 (Low)	0:00:00	23:59:59	Thursday F3 starting hours	R/W
0x0607	1543	F3_Thursday_h3 (High)				
0x0608	1544	F4_Thursday_p4	0	4	Thursday F4 mode (0=Disable, 1=OFF, 2=Comfort, 3=Economy, 4=Night)	R/W
0x0609	1545	F4_Thursday_h4 (Low)	0:00:00	23:59:59	Thursday F4 starting hours	R/W
0x060A	1546	F4_Thursday_h4 (High)				
0x060B	1547	F1_Friday_p1	0	4	Friday F1 mode (0=Disable, 1=OFF, 2=Comfort, 3=Economy, 4=Night)	R/W
0x060C	1548	F1_Friday_h1 (Low)	0:00:00	23:59:59	Friday F1 starting hours	R/W
0x060D	1549	F1_Friday_h1 (High)				
0x060E	1550	F2_Friday_p2	0	4	Friday F2 mode (0=Disable, 1=OFF, 2=Comfort, 3=Economy, 4=Night)	R/W
0x060F	1551	F2_Friday_h2 (Low)	0:00:00	23:59:59	Friday F2 starting hours	R/W
0x0610	1552	F2_Friday_h2 (High)				
0x0611	1553	F3_Friday_p3	0	4	Friday F3 mode (0=Disable, 1=OFF, 2=Comfort, 3=Economy, 4=Night)	R/W
0x0612	1554	F3_Friday_h3 (Low)	0:00:00	23:59:59	Friday F3 starting hours	R/W
0x0613	1555	F3_Friday_h3 (High)				
0x0614	1556	F4_Friday_p4	0	4	Friday F4 mode (0=Disable, 1=OFF, 2=Comfort, 3=Economy, 4=Night)	R/W
0x0615	1557	F4_Friday_h4 (Low)	0:00:00	23:59:59	Friday F4 starting hours	R/W
0x0616	1558	F4_Friday_h4 (High)				
0x0617	1559	F1_Saturday_p1	0	4	Saturday F1 mode (0=Disable, 1=OFF, 2=Comfort, 3=Economy, 4=Night)	R/W
0x0618	1560	F1_Saturday_h1 (Low)	0:00:00	23:59:59	Saturday F1 starting hours	R/W
0x0619	1561	F1_Saturday_h1 (High)				
0x061A	1562	F2_Saturday_p2	0	4	Saturday F2 mode (0=Disable, 1=OFF, 2=Comfort, 3=Economy, 4=Night)	R/W
0x061B	1563	F2_Saturday_h2 (Low)	0:00:00	23:59:59	Saturday F2 starting hours	R/W
0x061C	1564	F2_Saturday_h2 (High)				
0x061D	1565	F3_Saturday_p3	0	4	Saturday F3 mode (0=Disable, 1=OFF, 2=Comfort, 3=Economy, 4=Night)	R/W
0x061E	1566	F3_Saturday_h3 (Low)	0:00:00	23:59:59	Saturday F3 starting hours	R/W
0x061F	1567	F3_Saturday_h3 (High)				
0x0620	1568	F4_Saturday_p4	0	4	Saturday F4 mode (0=Disable, 1=OFF, 2=Comfort, 3=Economy, 4=Night)	R/W
0x0621	1569	F4_Saturday_h4 (Low)	0:00:00	23:59:59	Saturday F4 starting hours	R/W
0x0622	1570	F4_Saturday_h4 (High)				
0x0623	1571	F1_Sunday_p1	0	4	Sunday F1 mode (0=Disable, 1=OFF, 2=Comfort, 3=Economy, 4=Night)	R/W
0x0624	1572	F1_Sunday_h1 (Low)	0:00:00	23:59:59	Sunday F1 starting hours	R/W
0x0625	1573	F1_Sunday_h1 (High)				
0x0626	1574	F2_Sunday_p2	0	4	Sunday F2 mode (0=Disable, 1=OFF, 2=Comfort, 3=Economy, 4=Night)	R/W
0x0627	1575	F2_Sunday_h2 (Low)	0:00:00	23:59:59	Sunday F2 starting hours	R/W
0x0628	1576	F2_Sunday_h2 (High)				

0x0629	1577	F3_Sunday_p3	0	4	Sunday F3 mode (0=Disable, 1=OFF, 2=Comfort, 3=Economy, 4=Night)	R/W
0x062A	1578	F3_Sunday_h3 (Low)	0:00:00	23:59:59	Sunday F3 starting hours	R/W
0x062B	1579	F3_Sunday_h3 (High)				
0x062C	1580	F4_Sunday_p4	0	4	Sunday F4 mode (0=Disable, 1=OFF, 2=Comfort, 3=Economy, 4=Night)	R/W
0x062D	1581	F4_Sunday_h4 (Low)	0:00:00	23:59:59	Sunday F4 starting hours	R/W
0x062E	1582	F4_Sunday_h4 (High)				
0x062F	1583	MOdE_OperatingMode	0	2	MOdE - Summer/Winter mode (0=Summer, 1=Winter, 2=Auto)	R/O
0x0630	1584	SEtC_SummerSetpoint	-15.0	158.0	SEtC - Summer setpoint	R/W
0x0631	1585	SEtH_WinterSetpoint	-15.0	158.0	SEtH - Winter setpoint	R/W
0x0632	1586	PU01_Humidity_Setpoint	0	100	PU01 - Humidity setpoint	R/W
0x0633	1587	SCC_Comfort_SetpointCold	-15.0	158.0	SCC - Comfort band cooling setpoint	R/W
0x0634	1588	SCH_Comfort_SetpointHot	-15.0	158.0	SCH - Comfort band heating setpoint	R/W
0x0635	1589	OEC_Economy_OffsetCold	-36.0	36.0	OEC - Economy band cooling offset	R/W
0x0636	1590	OEH_Economy_OffsetHot	-36.0	36.0	OEH - Economy band heating offset	R/W
0x0637	1591	ONC_Night_OffsetCold	-36.0	36.0	ONC - Night band cooling offset	R/W
0x0638	1592	ONH_Night_OffsetHot	-36.0	36.0	ONH - Night band heating offset	R/W
0x0639	1593	SDC_SetpointCold_DI	-15.0	158.0	SDC - Cooling setpoint forced by DI	R/W
0x063A	1594	SDH_SetpointHot_DI	-15.0	158.0	SDH - Heating setpoint forced by DI	R/W
0x063B	1595	FSC_SupplyFan_Comfort	0.00	100.00	FSC - Comfort band supply fan setpoint	R/W
0x063C	1596	FSE_SupplyFan_Economy	0.00	100.00	FSE - Economy band supply fan setpoint	R/W
0x063D	1597	FSN_SupplyFan_Night	0.00	100.00	FSN - Night band supply fan setpoint	R/W
0x063E	1598	BKM_EvjBacklightMode	0	3	BKM - Evj/Epj LCD backlight mode	R/W
0x063F	1599	BKU_EvjBacklightPerc	0	100	BKU - Evj/Epj LCD backlight percentage	R/W
0x0640	1600	BKT_EvjBacklightTimeout	0	241	BKT - Evj/Epj LCD backlight timeout	R/W
0x0641	1601	PSd1_UserPassword	-999	9999	PSd1 - User password	R/W
0x0642	1602	PM00_Limit_FansHours (Low)	0.0	9999.0	PM00 - Fans working hours limit (h x10)	R/W
0x0643	1603	PM00_Limit_FansHours (High)				
0x0644	1604	PM01_SupplyFan_Hours (Low)	0.0	9999.0	PM01 - Supply fan working hours (h x10)	R/W
0x0645	1605	PM01_SupplyFan_Hours (High)				
0x0646	1606	PM02_ReturnFan_Hours (Low)	0.0	9999.0	PM02 - Return fan working hours (h x10)	R/W
0x0647	1607	PM02_ReturnFan_Hours (High)				
0x0648	1608	PM03_Limit_CmpHours (Low)	0.0	9999.0	PM03 - Compressor working hours limit (h x10)	R/W
0x0649	1609	PM03_Limit_CmpHours (High)				
0x064A	1610	PM04_Cmp_Hours (Low)	0.0	9999.0	PM04 - Compressor working hours	R/W
0x064B	1611	PM04_Cmp_Hours (High)				
0x064C	1612	PM90_LastMaintainDate (Low)	01/01/2008 00:00:01	19/01/2068 03:14:07	PM90 - Last maintenance date	R/W
0x064D	1613	PM90_LastMaintainDate (High)				
0x064E	1614	PM20_SupplyFan_Manual	0.00	100.00	PM20 - Supply fan manual setpoint	R/W
0x064F	1615	PM21_Enable_CmpManual	0	1	PM21 - Forcing compressor	R/W
0x0650	1616	PM80_Calibration_ReturnRoomProbe	-18.0	18.0	PM80 - Return/Room temperature probe calibration	R/W

0x0651	1617	PM81_Calibration_OutdoorProbe	-18.0	18.0	PM81 - Outdoor temperature probe calibration	R/W
0x0652	1618	PM82_Calibration_WaterProbe	-18.0	18.0	PM82 - Water temperature probe calibration	R/W
0x0653	1619	PM83_Calibration_ExhaustProbe	-18.0	18.0	PM83 - Exhaust temperature probe calibration	R/W
0x0654	1620	PM84_Calibration_DischargeProbe	-18.0	18.0	PM84 - Discharge temperature probe calibration	R/W
0x0655	1621	PM85_Calibration_CmpDefrostProbe	-18.0	18.0	PM85 - Compressor defrost temperature probe calibration	R/W
0x0656	1622	PM86_Calibration_HreturnRoomProbe	-10	10	PM86 - Room/Return humidity probe calibration	R/W
0x0657	1623	PM87_Calibration_AirQualityProbe	-100	100	PM87 - Air quality probe calibration	R/W
0x0658	1624	PM88_Calibration_RemoteFansProbe	-10.00	10.00	PM88 - Fans potentiometer calibration	R/W
0x0659	1625	PM89_Calibration_HighPressureProbe	-290.0	290.0	PM89 - High pressure probe calibration	R/W
0x065A	1626	PSd2_MaintainPassword	-999	9999	PSd2 - Maintenance password	R/W
0x065B	1627	PC01_Enable_SniffingMode	0	1	PC01 - Enable sniffing mode	R/W
0x065C	1628	PC02_WaitTime_Sniffing	1	99	PC02 - Sniffing cycle wait time	R/W
0x065D	1629	PC03_ActiveTime_Sniffing	1	30	PC03 - Sniffing cycle active time	R/W
0x065E	1630	PC04_EnableBothFans_Sniffing	0	1	PC04 - Enable both fans for sniffing cycle	R/W
0x065F	1631	PC05_ChangeMode_Type	0	2	PC05 - Operating mode change type (0=Manual, 1=Manual+Auto, 2=Auto)	R/W
0x0660	1632	PC06_ChangeoverProbe	0	1	PC06 - Changeover probe (0=T.water, 1=T.return)	R/W
0x0661	1633	PC07_SummerCommutationWater	0.0	158.0	PC07 - Summer commutation setpoint water probe	R/W
0x0662	1634	PC08_WinterCommutationWater	0.0	158.0	PC08 - Winter commutation setpoint water probe	R/W
0x0663	1635	PC09_SummerCommutationAir	0.0	158.0	PC09 - Summer commutation setpoint room probe	R/W
0x0664	1636	PC10_WinterCommutationAir	0.0	158.0	PC10 - Winter commutation setpoint room probe	R/W
0x0665	1637	PF26_SupplyFan_PostSpeed	0.00	100.00	PF26 - Supply fan post-ventilation speed	R/W
0x0666	1638	PF01_MinTimeOnFan	0	999	PF01 - Min time fans ON	R/W
0x0667	1639	PF02_TonOtherFan	0	999	PF02 - Min time between fans start-up	R/W
0x0668	1640	PF03_MinTimePostFan	0	999	PF03 - Post-ventilation time	R/W
0x0669	1641	PF04_StopSupplyFanOnDefrost	0	1	PF04 - Stop supply fan on compressor defrost	R/W
0x066A	1642	PF05_SupplyFan_ErrorProbe	0.00	100.00	PF05 - Force supply fan in error probe	R/W
0x066C	1644	PF07_MinSpeedSupplyFan_VMC	0.00	100.00	PF07 - Supply fan min speed in VMC mode	R/W
0x066D	1645	PF08_MaxSpeedSupplyFan_VMC	0.00	100.00	PF08 - Supply fan max speed in VMC mode	R/W
0x066E	1646	PF09_MaxSpeedFan_Integ	0.00	100.00	PF09 - Supply fan max speed in integration mode	R/W
0x066F	1647	PF10_MaxSpeedFan_DeHum	0.00	100.00	PF10 - Supply fan max speed in dehumidify	R/W
0x0670	1648	PF11_IncDecStepFans	1.00	100.00	PF11 - Fans speed increase/decrease step value	R/W
0x0671	1649	PF12_DeadZone_Integration	0.0	36.0	PF12 - Integration dead zone	R/W
0x0672	1650	PF13_TimeDZ_Integration	1	100	PF13 - Integration inc/dec time	R/W
0x0674	1652	PF15_minSetpointAQ	1	9999	PF15 - Air quality setpoint min value	R/W
0x0675	1653	PF16_maxSetpointAQ	1	9999	PF16 - Air quality setpoint max value	R/W
0x0676	1654	PF17_SetpointAQ	1	9999	PF17 - Air quality setpoint	R/W
0x0677	1655	PF18_DeadZoneAQ	0	1000	PF18 - Air quality dead zone	R/W
0x0678	1656	PF19_TimeDZ_AQ	1	100	PF19 - Air quality inc/dec time	R/W
0x0679	1657	PF20_FanSpeed_PercDefrost	0.00	100.00	PF20 - Heat exchanger defrost inc/dec speed	R/W
0x067A	1658	PF21_FanSpeed_TimeDefrost	1	100	PF21 - Heat exchanger defrost inc/dec time	R/W

0x067B	1659	PF22_DeltaReturnFan_Defrost	0.00	100.00	PF22 - Return fan delta perc. in heat exchanger defrost	R/W
0x067C	1660	PF23_SupplyFan_ForcedByDI	0.00	100.00	PF23 - Supply fan speed forced by DI	R/W
0x067F	1663	PE01_TminOffCmp	0	999	PE01 - Compressor min OFF time	R/W
0x0680	1664	PE02_TminOnCmp	0	999	PE02 - Compressor min ON time	R/W
0x0681	1665	PE03_TonOnCmp	0	999	PE03 - Compressor min switch-ons time	R/W
0x0682	1666	PE04_TminFanCmp	0	999	PE04 - Min time between fan in dehumidify and compressor start	R/W
0x0683	1667	PE05_Enable_SecuBypass	0	1	PE05 - Enable compressor security bypass	R/W
0x0684	1668	PE06_CmpMod_MinPerc	0.00	100.00	PE06 - Modulating compressor min percentage	R/W
0x0685	1669	PE07_CmpMod_MaxPerc	0.00	100.00	PE07 - Modulating compressor max percentage	R/W
0x0686	1670	PE08_PercIncDec_CmpMod	1.00	100.00	PE08 - Modulating compressor inc/dec percentage	R/W
0x0687	1671	PE09_TimeIncDec_CmpMod	1	100	PE09 - Modulating compressor inc/dec time	R/W
0x0688	1672	PE10_DefrostTimeout	1	99	PE10 - Defrost timeout	R/W
0x0689	1673	PE11_Setpoint_EndDefrost	0.0	68.0	PE11 - End defrost setpoint	R/W
0x068A	1674	PE12_DefrostMaxTime	1	99	PE12 - Defrost max time	R/W
0x068B	1675	PE13_DrippingTime	0	15	PE13 - Dripping time	R/W
0x068C	1676	PE14_DefrostCountingType	0	2	PE14 - Defrost counting type (0=Device ON, 1=Compressor ON, 2=T. defrost<set)	R/W
0x068D	1677	PE15_SetpointDefrostCount	0.0	68.0	PE15 - Defrost counting setpoint	R/W
0x068E	1678	PE16_SwitchTimeCondValve	0	999	PE16 - Condensation valves switch time	R/W
0x068F	1679	PE17_Setpoint_HPprealarm	16.0	652.5	PE17 - High pressure pre-alarm setpoint	R/W
0x0690	1680	PE18_Diff_HPprealarm	0.1	145.0	PE18 - High pressure pre-alarm differential	R/W
0x0691	1681	PE19_IncDecPerc_HPprealarm	0.00	100.00	PE19 - High pressure pre-alarm inc/dec percentage	R/W
0x0692	1682	PE20_TimeIncDec_HPprealarm	1	999	PE20 - High pressure pre-alarm inc/dec time	R/W
0x0693	1683	Pb01_DelayOff_WaterValve	0	999	Pb01 - Water valve OFF delay	R/W
0x0694	1684	Pb02_ActiveTime_SniffingValve	1	999	Pb02 - Sniffing cycle temperature alarm active time	R/W
0x0695	1685	Pb03_WaitTime_SniffingValve	1	99	Pb03 - Sniffing cycle temperature alarm wait time	R/W
0x0696	1686	Pb04_Setpoint_Preheating	0.0	86.0	Pb04 - Pre-heating setpoint	R/W
0x0697	1687	Pb05_Diff_Preheating	0.1	36.0	Pb05 - Pre-heating differential	R/W
0x0698	1688	Pb06_MaxTime_Preheating	0	60	Pb06 - Pre-heating max time	R/W
0x0699	1689	PU02_EnableWinterDehum	0	2	PU02 - Enable winter dehumidification (0=No, 1=With water, 2=Without water)	R/W
0x069A	1690	PU03_EnableDehumHighTemp	0	1	PU03 - Enable dehumidify with high temperature alarm	R/W
0x069B	1691	PU04_EnableDehumNotFlow	0	1	PU04 - Enable dehumidify with water flow alarm	R/W
0x069C	1692	PU05_ForceDehumInCooling	0	1	PU05 - Force dehumidify with cooling request	R/W
0x069E	1694	PU07_Dehumidity_Diff	0	100	PU07 - Dehumidify differential	R/W
0x069F	1695	PU08_SetpointOnlyWaterDehum	0.0	86.0	PU08 - Only cold water dehumidify setpoint	R/W
0x06A0	1696	PU09_EnableCmpSecondStep	0	1	PU09 - Enable compressor as dehumidify second step	R/W
0x06A1	1697	PU10_DeHumOutBandTime	0	240	PU10 - Dehumidify out band time	R/W
0x06A2	1698	PS01_PreStartTime_RecircDamper	0	9999	PS01 - Recirculation damper pre-start time	R/W
0x06A3	1699	PS02_PreStartTime_ExtDamper	0	9999	PS02 - External damper pre-start time	R/W

0x06A4	1700	PS03_DelayOff_ExtDamper	0	9999	PS03 - External damper OFF delay	R/W
0x06A5	1701	PS04_MinExtDamperMod	0.00	100.00	PS04 - Modulating external damper min opening	R/W
0x06A6	1702	PS05_MaxExtDamperMod	0.00	100.00	PS05 - Modulating external damper max opening	R/W
0x06A7	1703	PS06_SetpointFreeCoolingHeating	0.0	68.0	PS06 - Free-Cooling/Heating setpoint	R/W
0x06A8	1704	PS07_DiffFreeCoolingHeating	0.0	36.0	PS07 - Free-Cooling/Heating differential	R/W
0x06A9	1705	PS08_Perc_ExtDamperHighHum	1.00	100.00	PS08 - External damper inc/dec perc in high humidity	R/W
0x06AA	1706	PS09_Time_ExtDamperHighHumidity	1	100	PS09 - External damper inc/dec time in high humidity	R/W
0x06AB	1707	Pr01_SetpointDiff_Recover	0.0	36.0	Pr01 - Heat exchanger differential setpoint	R/W
0x06AC	1708	Pr02_Diff_Recover	0.0	36.0	Pr02 - Heat exchanger differential	R/W
0x06AD	1709	Pr03_SetPoint_RecoverDefrost	-15.0	158.0	Pr03 - Heat exchanger defrost setpoint	R/W
0x06AE	1710	Pr04_DeadZone_DefrostRecover	0.0	36.0	Pr04 - Heat exchanger defrost dead zone	R/W
0x06AF	1711	Pr05_TimeByPass_Recover	1	99	Pr05 - Heat exchanger by-pass waiting time	R/W
0x06B0	1712	Pr06_Setpoint_RecoverStop	-15.0	158.0	Pr06 - Setpoint heat exchanger stop for defrost	R/W
0x06B1	1713	Pr07_Diff_RecoverStop	0.0	36.0	Pr07 - Differential heat exchanger stop for defrost	R/W
0x06B2	1714	Pr08_SpeedDefrost_RotaryHE	0.00	100.00	Pr08 - Heat wheel defrost inc/dec percentage	R/W
0x06B3	1715	Pr09_TimeDefrost_RotaryHE	1	100	Pr09 - Heat wheel defrost inc/dec time	R/W
0x06B4	1716	Pr10_PwmDefrost_RotaryHE	1	2000	Pr10 - Heat wheel defrost PWM period	R/W
0x06B5	1717	PA01_Enable_FansHoursAlarm	0	1	PA01 - Enable fans working hours alarm	R/W
0x06B6	1718	PA02_Enable_CmpHoursAlarm	0	1	PA02 - Enable compressor working hours alarm	R/W
0x06B7	1719	PA03_HoursAlarm_SignalType	0	2	PA03 - Working hours alarm signal type (0=No, 1=Light, 2=Serious)	R/W
0x06B8	1720	PA04_Delay_ProbeAlarm	0	240	PA04 - Probe alarm delay	R/W
0x06B9	1721	PA05_ProbeAlarm_SignalType	0	2	PA05 - Probe alarm signal type (0=No, 1=Light, 2=Serious)	R/W
0x06BA	1722	PA06_StartupDelay_AirFlowAlarm	0	999	PA06 - Air flow switch alarm delay from reset	R/W
0x06BB	1723	PA07_Delay_AirFlowAlarm	0	999	PA07 - Air flow switch alarm delay	R/W
0x06BC	1724	PA08_AirFlowAlarm_SignalType	0	2	PA08 - Air flow switch alarm signal type (0=No, 1=Light, 2=Serious)	R/W
0x06BD	1725	PA09_StartupDelay_WaterFlowAlarm	0	999	PA09 - Water flow switch alarm delay from reset	R/W
0x06BE	1726	PA10_Delay_WaterFlowAlarm	0	999	PA10 - Water flow switch alarm delay	R/W
0x06BF	1727	PA11_NumberEvents_WaterFlow	0	5	PA11 - Number water flow switch alarm/hour for manual reset	R/W
0x06C0	1728	PA12_WaterFlowAlarm_SignalType	0	2	PA12 - Water flow switch alarm signal type (0=No, 1=Light, 2=Serious)	R/W
0x06C1	1729	PA13_Delay_AirFilterAlarm	0	999	PA13 - Air filter pressure switch alarm delay	R/W
0x06C2	1730	PA14_ResetType_AirFilterAlarm	0	1	PA14 - Air filter pressure switch reset type (0=Auto, 1=Manu)	R/W
0x06C3	1731	PA15_AirFilterAlarm_SignalType	0	2	PA15 - Air filter pressure switch alarm signal type (0=No, 1=Light, 2=Serious)	R/W
0x06C4	1732	PA16_Delay_TemperatureAlarm	1	999	PA16 - High/Low temperature alarm delay	R/W
0x06C5	1733	PA17_Diff_TemperatureAlarm	0.1	18.0	PA17 - High/Low temperature alarm differential	R/W
0x06C6	1734	PA18_TempAlarm_SignalType	0	2	PA18 - High/Low temperature alarm signal type (0=No, 1=Light, 2=Serious)	R/W
0x06C7	1735	PA19_Setpoint_HighHumWarning	0	100	PA19 - High humidity warning setpoint	R/W

0x06C8	1736	PA20_Diff_HighHumWarning	0	100	PA20 - High humidity warning differential	R/W
0x06C9	1737	PA21_OutbandTime_HighHumAlarm	0	60	PA21 - High humidity warning outband time	R/W
0x06CA	1738	PA22_NumberEvents_HighHum	0	5	PA22 - Number high humidity warning/hour for manual reset	R/W
0x06CB	1739	PA23_StartupDelay_TachoFan	0	999	PA23 - Fan tacho alarm delay from reset	R/W
0x06CC	1740	PA24_Delay_TachoFan	0	999	PA24 - Fan tacho alarm delay	R/W
0x06CD	1741	PA25_MaxRPM_TachoFan	0	9999	PA25 - Fan tacho alarm max rpm	R/W
0x06CE	1742	PA26_FansAlarm_SignalType	0	2	PA26 - Fans alarm signal type (0=No, 1=Light, 2=Serious)	R/W
0x06CF	1743	PA27_Delay_ThermalCmpAlarm	0	999	PA27 - Compressor thermal alarm delay	R/W
0x06D0	1744	PA28_ResetType_ThermalCmpAlarm	0	1	PA28 - Compressor thermal alarm reset type (0=Auto, 1=Manu)	R/W
0x06D1	1745	PA29_ThermalCmpAlarm_SignalType	0	2	PA29 - Compressor thermal alarm signal type (0=No, 1=Light, 2=Serious)	R/W
0x06D2	1746	PA30_BypassTime_LowPressure	0	999	PA30 - Low pressure alarm bypass time	R/W
0x06D3	1747	PA31_Delay_LowPressureAlarm	0	999	PA31 - Low pressure alarm delay	R/W
0x06D4	1748	PA32_NumberEvents_LPAlarm	0	5	PA32 - Number low pressure alarm/hour for manual reset	R/W
0x06D5	1749	PA33_Setpoint_HPAlarm	16.0	652.5	PA33 - High pressure alarm setpoint	R/W
0x06D6	1750	PA34_Diff_HPAlarm	0.1	145.0	PA34 - High pressure alarm differential	R/W
0x06D7	1751	PA35_NumberEvents_HPAlarm	0	5	PA35 - Number high pressure alarm/hour for manual reset	R/W
0x06D8	1752	PA36_PressureAlarm_SignalType	0	2	PA36 - High/Low pressure alarm signal type (0=No, 1=Light, 2=Serious)	R/W
0x06D9	1753	PA37_Delay_DischargeHighTemp	0	999	PA37 - Discharge high temperature alarm delay	R/W
0x06DA	1754	PA38_Setpoint_DischargeHighTemp	70.0	284.0	PA38 - Discharge high temperature alarm setpoint	R/W
0x06DB	1755	PA39_Diff_DischargeHighTemp	10.0	54.0	PA39 - Discharge high temperature alarm differential	R/W
0x06DC	1756	PA40_NumberEvents_DischargeHighTemp	0	5	PA40 - Number discharge high temp alarm/hour for manual reset	R/W
0x06DD	1757	PA41_DischHighTemp_SignalType	0	2	PA41 - Discharge high temperature alarm signal type (0=No, 1=Light, 2=Serious)	R/W
0x06DE	1758	PA42_Delay_AntifreezeAlarm	0	999	PA42 - Antifreeze alarm delay	R/W
0x06DF	1759	PA43_Setpoint_AntiFreezeAlarm	0.0	68.0	PA43 - Antifreeze alarm setpoint	R/W
0x06E0	1760	PA44_Diff_Antifreeze	0.1	18.0	PA44 - Antifreeze alarm differential	R/W
0x06E1	1761	PA45_AntiFreezeAlarm_SignalType	0	2	PA45 - Antifreeze alarm signal type (0=No, 1=Light, 2=Serious)	R/W
0x06E2	1762	PA46_Type_FireAlarm	0	1	PA46 - Fire/Smoke alarm type (0=Fire extinguishing, 1=Smoke evacuation)	R/W
0x06E3	1763	PA47_FireSmokeAlarm_SignalType	0	2	PA47 - Fire/Smoke alarm signal type (0=No, 1=Light, 2=Serious)	R/W
0x06E4	1764	PA48_Delay_GenericWarning	0	999	PA48 - Generic warning delay	R/W
0x06E5	1765	PA49_ResetType_GenericWarning	0	1	PA49 - Generic warning reset type (0=Auto, 1=Manu)	R/W
0x06E6	1766	PA50_Delay_GenericAlarm	0	999	PA50 - Generic alarm delay	R/W
0x06E7	1767	PA51_ResetType_GenericAlarm	0	1	PA51 - Generic alarm reset type (0=Auto, 1=Manu)	R/W
0x06E8	1768	PA52_Enable_RTCAlarm	0	1	PA52 - Enable RTC alarm	R/W
0x06E9	1769	PA53_ResetType_RTCAlarm	0	1	PA53 - RTC alarm reset type (0=Auto, 1=Manu)	R/W

0x06EA	1770	PA54_RTCAlarm_SignalType	0	2	PA54 - RTC alarm signal type (0=No, 1=Light, 2=Serious)	R/W
0x06EB	1771	PA55_PhasesSequence_SignalType	0	2	PA55 - Phases sequence alarm signal type (0=No, 1=Light, 2=Serious)	R/W
0x06EC	1772	PA56_ExpansionAlarm_SignalType	0	2	PA56 - Expansion alarm signal type (0=No, 1=Light, 2=Serious)	R/W
0x06ED	1773	PH11_Modbus_Address	1	247	PH11 - Modbus address	R/W
0x06EE	1774	PH12_Modbus_Baud	0	7	PH12 - Modbus baud rate (0=1200, 1=2400, 2=4800, 3=9600, 4=19200, 5=28800, 6=38400, 7=57600)	R/W
0x06EF	1775	PH13_Modbus_Parity	0	2	PH13 - Modbus parity (0=None, 1=Odd, 2=Even)	R/W
0x06F0	1776	PH14_Modbus_StopBit	0	1	PH14 - Modbus stop bit (0=1 stop bit, 1=2 stop bits)	R/W
0x06F1	1777	PH01_Enable_OnOffByKey	0	1	PH01 - Enable On/Off by key	R/W
0x06F2	1778	PH02_Enable_OnOffByBMS	0	1	PH02 - Enable On/Off by BMS	R/W
0x06F3	1779	PH03_Enable_Scheduler	0	1	PH03 - Enable scheduler	R/W
0x06F4	1780	PH04_HolidayType	0	1	PH04 - Holiday unit status (0=Unit off, 1=Unit On)	R/W
0x06F5	1781	PH05_TemperatureUM	0	1	PH05 - Temperature UM (0=°C, 1=°F)	R/W
0x06F6	1782	PH06_PressureUM	0	1	PH06 - Pressure UM (0=Bar, 1=psi)	R/W
0x06F7	1783	PH07_MinValue_SetpointCold	-15.0	158.0	PH07 - Cooling setpoint min value	R/W
0x06F8	1784	PH08_MaxValue_SetpointCold	-15.0	158.0	PH08 - Cooling setpoint max value	R/W
0x06F9	1785	PH09_MinValue_SetpointHot	-15.0	158.0	PH09 - Heating setpoint min value	R/W
0x06FA	1786	PH10_MaxValue_SetpointHot	-15.0	158.0	PH10 - Heating setpoint max value	R/W
0x06FB	1787	PH15_RestoreDefault	0	1	PH15 - Restore default	R/W
0x06FC	1788	PH16_CAN_1st_BaudRate	1	4	PH16 - CAN baud rate (1=20K, 2=50K, 3=125K, 4=500K)	R/W
0x06FD	1789	PH17_CAN_1st_MyNode	1	127	PH17 - CAN node	R/W
0x06FE	1790	PH18_HistoryReset	0	1	PH18 - History reset	R/W
0x06FF	1791	PH19_MinPPM_AirQuality	0	9999	PH19 - Air quality probe min value	R/W
0x0700	1792	PH20_MaxPPM_AirQuality	0	9999	PH20 - Air quality probe max value	R/W
0x0701	1793	PH21_MinValHighPressure	5.0	870.0	PH21 - High pressure probe min value	R/W
0x0702	1794	PH22_MaxValHighPressure	5.0	870.0	PH22 - High pressure probe max value	R/W
0x0703	1795	PH23_Enable_EvcoLed	0	1	PH23 - Enable Evco led	R/W
0x0704	1796	PSd3_InstallerPassword	-999	9999	PSd3 - Installer password	R/W
0x0705	1797	PG01_MachineType	0	1	PG01 - Machine type (0=Only dehumidifier, 1=Dehumidifier + VMC)	R/W
0x0706	1798	PG02_EnableIntegration	0	1	PG02 - Enable integration	R/W
0x0707	1799	PG03_EnableFreeCoolingHeating	0	1	PG03 - Enable Free-Cooling/Free-Heating	R/W
0x0708	1800	PG04_HeatExchangerType	0	2	PG04 - Heat exchanger type (0=Disable, 1=Cross flow, 2=Rotating)	R/W
0x0709	1801	PG05_EnableExpansion	0	1	PG05 - Enable expansion	R/W
0x070A	1802	PSd4_CostructorPassword	-999	9999	PSd4 - Manufacturer password	R/W
0x070B	1803	HA00	0	6	HA00 - Display remote probe (0=None, 1=Evj T, 2=Evj TH, 3=Epj T, 4=Epj TH, 5=Epj Graph T, 6=Epj Graph TH)	R/W
0x070C	1804	HA01	0	62	HA01 - AI1 configuration	R/W
0x070D	1805	HA02	0	62	HA02 - AI2 configuration	R/W
0x070E	1806	HA03	0	62	HA03 - AI3 configuration	R/W

0x070F	1807	HA04	0	52	HA04 - AI4 configuration	R/W
0x0710	1808	HA05	0	52	HA05 - AI5 configuration	R/W
0x0711	1809	HA06	0	52	HA06 - AI6 configuration	R/W
0x0712	1810	HA07	0	52	HA07 - AI7 configuration	R/W
0x0713	1811	HA08	0	52	HA08 - AI1 Epj configuration	R/W
0x0714	1812	HA09	0	52	HA09 - AI2 Epj configuration	R/W
0x0715	1813	HA10	0	62	HA10 - AI1 expansion configuration	R/W
0x0716	1814	HA11	0	62	HA11 - AI2 expansion configuration	R/W
0x0717	1815	HA12	0	52	HA12 - AI3 expansion configuration	R/W
0x0718	1816	HA13	0	52	HA13 - AI4 expansion configuration	R/W
0x0719	1817	HA14	0	52	HA14 - AI5 expansion configuration	R/W
0x071A	1818	HA15	0	52	HA15 - AI6 expansion configuration	R/W
0x071B	1819	HA16	0	52	HA16 - AI7 expansion configuration	R/W
0x071C	1820	HA17	0	52	HA17 - AI1 Evj configuration	R/W
0x071D	1821	HA18	0	52	HA18 - AI2 Evj configuration	R/W
0x071E	1822	HB01	0	44	HB01 - DI1 configuration	R/W
0x071F	1823	HB02	0	44	HB02 - DI2 configuration	R/W
0x0720	1824	HB03	0	46	HB03 - DI3 configuration	R/W
0x0721	1825	HB4	0	46	HB04 - DI4 configuration	R/W
0x0722	1826	HB05	0	44	HB05 - DI1 expansion configuration	R/W
0x0723	1827	HB06	0	44	HB06 - DI2 expansion configuration	R/W
0x0724	1828	HB07	0	44	HB07 - DI3 expansion configuration	R/W
0x0725	1829	HC01	0	7	HC01 - AO1 configuration	R/W
0x0726	1830	HC02	0	7	HC02 - AO2 configuration	R/W
0x0727	1831	HC03	0	7	HC03 - AO3 configuration	R/W
0x0728	1832	HC04	0	7	HC04 - AO4 configuration	R/W
0x0729	1833	HC05	0	7	HC05 - AO1 expansion configuration	R/W
0x072A	1834	HC06	0	7	HC06 - AO2 expansion configuration	R/W
0x072B	1835	HCF1	10	2000	HCF1 - Supply fan PWM frequency	R/W
0x072C	1836	HCF2	10	2000	HCF2 - Return fan PWM frequency	R/W
0x072D	1837	HCF3	10	2000	HCF3 - Compressor PWM frequency	R/W
0x072E	1838	HD01	0	30	HD01 - DO1 configuration	R/W
0x072F	1839	HD02	0	30	HD02 - DO2 configuration	R/W
0x0730	1840	HD03	0	30	HD03 - DO3 configuration	R/W
0x0731	1841	HD04	0	30	HD04 - DO4 configuration	R/W
0x0732	1842	HD05	0	30	HD05 - DO5 configuration	R/W
0x0733	1843	HD06	0	30	HD06 - DO6 configuration	R/W
0x0734	1844	HD07	0	30	HD07 - DO1 expansion configuration	R/W
0x0735	1845	HD08	0	30	HD08 - DO2 expansion configuration	R/W
0x0736	1846	HD09	0	30	HD09 - DO3 expansion configuration	R/W
0x0737	1847	HD010	0	30	HD10 - DO4 expansion configuration	R/W
0x0738	1848	HD011	0	30	HD11 - OC expansion configuration	R/W

0x0739	1849	Pb07_ActiveTime_SniffingWaterValve	1	999	Pb07 - Water valve sniffing cycle active time	R/W
0x073A	1850	Pb08_WaitTime_SniffingWaterValve	1	99	Pb08 - Water valve sniffing cycle wait time	R/W
0x073B	1851	PE21_MinPerc_CmplIntegration	0.00	100.00	PE21 - Modulating compressor min percentage in integration	R/W
0x073C	1852	PF27_MinSpeedFan_Integ	0.00	100.00	PF27 - Supply fan min speed in integration mode	R/W
0x073D	1853	PF28_MinSpeedFan_DeHum	0.00	100.00	PF28 - Supply fan min speed in dehumidify	R/W
0x073E	1854	PF29_MinSpeedReturnFan	0.00	100.00	PF29 - Return fan min speed	R/W
0x073F	1855	PF30_MaxSpeedReturnFan	0.00	100.00	PF30 - Return fan max speed	R/W
0x0740	1856	PF31_IntegrationType	0	2	PF31 - Integration type (0=Only temp, 1=Higher manual, remote, 2=Higher temp, manual, remote)	R/W
0x0741	1857	PF32_ReturnFan_ForcedByDI	0.00	100.00	PF32 - Return fan speed forced by DI	R/W
0x0742	1858	PM22_ReturnFan_Manual	0.00	100.00	PM22 - Return fan manual setpoint	R/W
0x0743	1859	FRC_ReturnFan_Comfort	0.00	100.00	FRC - Comfort band return fan setpoint	R/W
0x0744	1860	FRE_ReturnFan_Economy	0.00	100.00	FRE - Economy band return fan setpoint	R/W
0x0745	1861	FRN_ReturnFan_Night	0.00	100.00	FRN - Night band return fan setpoint	R/W
0x0746	1862	PF33_ReturnFan_ErrorProbe	0.00	100.00	PF33 - Force return fan in error probe	R/W
0x0747	1863	PF34_ReturnFan_PostSpeed	0.00	100.00	PF34 - Return fan post-ventilation speed	R/W
0x0748	1864	PM91_Calibration_FreeCoolingProbe	-18.0	18.0	PM91 - Free-Cooling temperature probe calibration	R/W
0x0749	1865	PM92_Calibration_EvaporationProbe	-18.0	18.0	PM92 - Evaporation temperature probe calibration	R/W
0x074A	1866	PH24_MinValEvapPressure	1.0	870.0	PH24 - Evaporation pressure probe min value	R/W
0x074B	1867	PH25_MaxValEvapPressure	1.0	870.0	PH25 - Evaporation pressure probe max value	R/W
0x074C	1868	PH26_RefrigerationType	0	19	PH26 - Refrigeration gas (0=R-22, 1=R-134A, 2=R-402A, 3=R-404A, 4=R-407A, 5=R-407C, 6=R-410A, 7=R-417A, 8=R-422A, 9=R-422D, 10=R-507A, 11=R-744, 12=R-438A, 13=R-401B, 14=R-290, 15=R-717, 16=R-1270, 17=R-32, 18=R-407F, 19=R-1234ZE)	R/W
0x074D	1869	PH27_Enable_IntegByBMS	0	1	PH27 - Enable integration request by BMS	R/W
0x074E	1870	PH28_Enable_DeHumByBMS	0	1	PH28 - Enable dehumidify request by BMS	R/W
0x074F	1871	PE22_MaxPerc_CmplIntegration	0.00	100.00	PE22 - Modulating compressor max percentage in integration	R/W
0x0750	1872	PE23_CmpMod_DiffIntegration	0.1	36.0	PE23 - Modulating compressor integration differential	R/W
0x0751	1873	PU11_Evaporation_Setpoint	0.0	68.0	PU11 - Evaporation setpoint	R/W
0x0752	1874	PU12_Evaporation_DeadZone	0.1	18.0	PU12 - Evaporation dead zone	R/W
0x0753	1875	PSdM_ImportExportPassword	-999	9999	PSdM - Import/Export parameters password	R/W
0x0754	1876	PA57_Type_HighHumidityAlarm	0	1	PA57 - High humidity alarm type (0=Only display, 1=Block alarm)	R/W
0x0755	1877	PA58_MaxTime_DeHumByDI	0	999	PA58 - Max time dehumidify by DI for warning	R/W
0x0756	1878	PC11_PriorityChangeMode_Display	0	1	PC11 - Change operating mode priority with display connected (0=Display, 1=DI)	R/W
0x0757	1879	PE24_RampSpeed_RPS	0	200	PE24 - Compressor ramp speed	R/W
0x0758	1880	PE25_RampSpeedAlarmOFF_RPS	0	200	PE25 - Compressor ramp speed in alarm/unit OFF	R/W
0x0759	1881	PE26_RampSpeedMinStep_RPS	0	200	PE26 - Compressor min step ramp speed	R/W
0x075A	1882	PE27_MaxRPS_Cmp	0	200	PE27 - Compressor max RPS	R/W
0x075B	1883	PE28_Frequency_Level1	0	200	PE28 - Compressor level 1 frequency	R/W

0x075C	1884	PE29_Frequency_Level2	0	200	PE29 - Compressor level 2 frequency	R/W
0x075D	1885	PE30_Time_Level1	0	255	PE30 - Compressor level 1 time	R/W
0x075E	1886	PE31_Time_Level2	0	255	PE31 - Compressor level 2 time	R/W
0x075F	1887	PE32_MaxTime_UnderLevel1	0	255	PE32 - Compressor max time under level 1	R/W
0x0760	1888	PE33_EnableRPSControl	0	1	PE33 - Enable RPS control	R/W
0x0761	1889	PU13_MinTRoom_disableDEU	0	300	PU13 - Minimum room temperature to disable dehumidification	R/W
0x0762	1890	PU14_TRoomDIFF_enableDEU	0.1	20.0	PU14 - Minimum room temperature differential to enable dehumidification	R/W
0x0763	1891	PA59_AlarmRelaySigMode	0	1	PA59 - Alarm Relay Signaling Mode: 0: Always (both summer and winter) 1: Only in summer	R/W
0x0764	1892	PH29_Min_Humidity_Setpoint	0	100	PH29 - Minimum humidity setpoint value	R/W
0x0765	1893	PH30_Max_Humidity_Setpoint	0	100	PH30 - Maximum humidity setpoint value	R/W
0x0766	1894	PC12_Enable_OnOFF_by_INT_DEU	0	1	PC12 - Enable Unit On/Off with integration /dehumidification request	R/W
0x0767	1895	LNG_Language	0	2	LNG - Language: 0: English 1: Italiano 2: Spanish	R/W
0x0768	1896	PA60_AutoReset_Delay_HighHumidity	0	9999	PA60 - Automatic reset delay for high humidity blocking alarm	R/W
0x0769	1897	PT01_Testmode_ability	0	1	PT01 - Testmode ability	R/W
0x076A	1898	PT02_Discharge_FanSpeed_Test	0	100	PT02 - Discharge Fan Speed in Test Mode	R/W
0x076B	1899	PT03_Return_FanSpeed_Test	0	100	PT03 - Return Fan Speed in Test Mode	R/W
0x076C	1900	PT04_ExtDamperPerc_Test	0	100	PT04 - External damper percentage in Test Mode	R/W
0x076D	1901	PT05_RecircDamper_RelayStatus_Test	0	1	PT05 - Recirculation damper relay status in Test Mode	R/W
0x076E	1902	PT06_SevAlarm_RelayStatus_Test	0	1	PT06 - Severe Alarm Relay Status in Test Mode	R/W
0x076F	1903	PT07_FreeCoolHeat_RelayStatus_Test	0	1	PT07 - Free-Cooling/Free-Heating bypass relay status in Test Mode	R/W
0x0770	1904	PT08_WaterCond_RelayStatus_Test	0	1	PT08 - Water Condensing Valve Relay Status in Test Mode	R/W
0x0771	1905	PT09_WaterFlow_RelayStatus_Test	0	1	PT09 - Water Valve Relay Status in Test Mode	R/W
0x0772	1906	PH31_EpjGraphBacklightMode	1	2	PH31 - Epj Graph Backlight Mode: 1: ON 2: Timed	R/W
0x0773	1907	PH32_EpjGraphBacklightTimeout	0	240	PH32 - Timeout backlight Epj Graph	R/W
0x0774	1908	PH33_Enable_EpjGraph_OnOff_LED	0	1	PH33 - Enable Epj Graph On/Off LED	R/W
0x0775	1909	PH34_Enable_EpjGraph_Alarm_LED	0	1	PH34 - Enable Epj Graph Alarm LED	R/W
0x0776	1910	PA61_ExtDamperLimit_Diff	0	20	PA61 - External Damper Limitation Differential	R/W
0x0777	1911	PA62_MaxTime_DEU_ExtDampLimit	0	999	PA62 - Maximum dehumidification time from DI/BMS for external damper limitation	R/W
0x0778	1912	PT10_Cmp_RelayStatus_Test	0	1	PT10 - Compressor Relay Status in Test Mode	R/W
0x0779	1913	PT11_Cmp_Perc_Test	0	100	PT11 - Compressor Percentage in Test mode	R/W
0x077A	1914	PH35_Sun_Icon_Mode	0	1	PH35 - Summer/Winter Icon Type 0: Sun = Summer 1: Sun = Winter (Heating)	R/W

Änderungen vorbehalten

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hej.Luft e.U.
Hauptstraße 36b
7301 Deutschkreutz, Österreich
office@hejluft.at

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