

MyVALLOX MODBUS CONFIGURATION

Tekniska anvisningar

MyVallox-ventilationsaggregat kan styras med Modbus RTU-kompatibla system för fastighetsautomation. Upp till 32 MyVallox-ventilationsaggregat kan kopplas till samma Modbus-buss. Om ett ventilationsaggregat styrs med system för fastighetsautomation kan man till exempel avläsa olika givarvärden och ändra läge för ventilationsaggregatet.



ALLMÄNT

Alla ändringar som görs via användargränssnitt kan också göras via Modbus RTU.

MyVallox Control och MyVallox Touch stöder inte Modbus TCP.

Dataformatet är alltid ett 16-bitars tal utan förtecken.

Alla register är holding-register.

Stödda funktionskoder

- Läs holding-registren, 0x03
- Skriv ett register, 0x06
- Skriv flera register, 0x10

Det är inte tillåtet att skriva i ospecificerade register och det orsakar en felkod. Detta måste beaktas när man skriver flera register på samma gång.

- Det går INTE att skriva i registren 20504–20508. Register 20504 är ospecificerat.
- Det går att skriva i registren 20505–20508. Registren är specificerade och det går att skriva i dem.

Det är inte tillåtet att skriva i skrivskyddade register och det orsakar en felkod.

Det är inte tillåtet att skriva värden utanför det tillåtna området och det orsakar felkod.

GÅ FRÅN ETT LÄGE TILL ETT ANNAT

Kontrollpanelerna MyVallox Control och MyVallox Touch har två baslägen: Hemma och Borta. Någotdera läget är alltid valt.

- Basläget kan avläsas och ställas in i register 4609, 0 = Hemma och 1 = Borta.

Tidsinställda lägen

Kontrollpanelerna MyVallox Control och MyVallox Touch har dessutom tre lägen som kan tidsinställas: Forcering, Anpassat och Självprogrammerad. De tidsinställda lägena häver basläget tillfälligt. Det önskade läget aktiveras genom att man anger önskad längd i minuter i timerregistret. Läget aktiveras och timerregistret börjar räkna tiden baklänges. När alla tidsinställda lägen nått noll, återställer MyVallox Control respektive MyVallox Touch det valda basläget.

- 4612 = timerregister för Forcering
- 4613 = timerregister för Anpassat
- 4614 = timerregister för Självprogrammerad

Det tidsinställda läget kan ställas in för att fortsätta tills vidare genom att man anger värdet 65535 i timerregistret. Detta hindrar timern från att räkna tiden baklänges tills timerregistret omprogrammeras manuellt eller läget ändras via något annat användargränssnitt.

Timerfunktionerna kan också avaktiveras i motsvarande register för timerbrytare, 0 = timern av och 1 = timern på. Detta hindrar användning av timerfunktionerna från alla användargränssnitt.



OBS!

Användningen av MyVallox digitala ingång för att ändra läget påverkar också innehållet i registren över timerbrytare.

- 21766 = Register som tillåter tidsinställning av Forcering
- 21767 = Register som tillåter tidsinställning av Anpassat
- 21772 = Register som tillåter tidsinställning av Självprogrammerad

EXEMPEL

Aktivering av läget Anpassat för 15 minuter

- Skriv 15 i register 4613.
- Skriv 1 i register 21767 (om det inte redan står där).

Aktivering av Forcering utan timer (läget förblir aktivt)

Metod 1:

- Skriv 65535 i register 4612.

Metod 2:

- Skriv vilket värde som helst (annat än 0) i register 4612.
- Skriv 0 i register 21766.

Avslutar Forcering, återgång till valt basläge (Borta/Hemma)

- Skriv 0 i register 4612.
- Alternativt skriver du 0 i registren 4613, 4614 för att avsluta alla tidsinställda lägen.

Gå från Hemma-läget till Borta-läget

- Skriv 1 i register 4609.
- Alternativt skriver du 0 i registren 4612, 4613, 4614 för att avsluta alla tidsinställda lägen.

PRIORITERING AV LÄGEN

Om flera än ett läge är aktiva samtidigt, häver läget med högst prioritet de andra lägena. Om exempelvis Anpassat och Forcering är aktiva samtidigt, använder ventilationsaggregatet Anpassat. Prioritetsordningen för lägena är följande:

1. Självprogrammerad
2. Anpassat läge
3. Forcering-läge
4. Hemma/Borta-(bas)läge

BRYTANDE AV STRÖMMEN TILL AGGREGATET

Strömmen till aggregatet kan brytas genom att man skriver "5" i register 4610 och det kan kopplas på genom att man skriver "0" i register 4610.

FELLÄGE I AGGREGATET

Felläge kan avläsas i register 4621.

0 = normal drift, 1 = fel. Feltypen kan enbart avläsas via MyVallox-gränssnitt.

OMVANDLINGSTABELLER



OBS!

Temperaturerna anges i grader centikelvin.

- Temperaturen i grader celsius = (temperaturen i grader centikelvin-27315)/100
- Temperaturen i grader centikelvin = (temperaturen i grader celsius*100)+27315

Det allmänna innehållet i registren beskrivs i registerbeskrivningen inom hakparentes i sifferordning från noll.

- [ingen givare, låg, medel, hög]:
- 0 = ingen givare
- 1 = låg
- 2 = medel
- 3 = hög



MODBUS-INSTÄLLNINGAR

Om ventilationsaggregatet exempelvis kopplats till ett fastighetsautomationssystem med Modbus, ska du göra följande Modbus-inställningar.

- Ventilationsaggregatets Modbus-adress
- Överföringshastighet för Modbus
- Modbus-paritet
- Modbus-stoptid (stop bit)

I dessa anvisningar beskrivs hur de här inställningarna görs med MyVallox Control-panel, MyVallox Touch-panel respektive www-användargränssnitt. Med de här anvisningarna kan du också fastställa specifika inställningar, såsom Modbus-adress.

MYVALLOX CONTROL-KONTROLLPANELKNAPPAR

	Med Byt läge -knappen kan du byta läget på ventilationsaggregatet, dvs. aggregatets driftläge.
	Med Lägesuppgifter -knappen kan du se informationen om det aktuella läget.
	Med Temperatur -knappen kan du se information om temperaturer och givare.
	Med Inställningar -knappen kan du öppna inställningsmenyn.
	Med Tillbaka -knappen kan du gå bakåt i menyn.
	Med Pil till vänster -knappen kan du gå till vänster i menyn.
	Med Pil till höger -knappen kan du gå till höger i menyn.
	Med Godkänn -knappen kan du godkänna det valda alternativet.
	Med Avvisa -knappen kan du avvisa det valda alternativet.
	Med Välj -knappen kan du välja det önskade alternativet.
	Med Ändra -knappen kan du redigera inställningar.
	Med Plus -knappen kan du: <ul style="list-style-type: none"> • Höja den valda inställningens värde. • Gå till nästa alternativ i menyn. • Gå från dagvy till veckovy i grafiken för temperatur, relativ luftfuktighet, koldioxid eller VOC.
	Med Minus -knappen kan du: <ul style="list-style-type: none"> • Minska värdet på den valda inställningen. • Gå tillbaka till föregående alternativ i menyn. • Gå från veckovy till dagvy i grafiken för temperatur, relativ luftfuktighet, koldioxid eller VOC.
	Med Pil uppåt -knappen går du uppåt i menyn.
	Med Pil neråt -knappen går du neråt i menyn.
	Med Statistik -knappen kan du öppna grafiken för temperatur, relativ luftfuktighet, koldioxid eller VOC (1 dag eller 1 vecka).
	Symbolen visar att användning av egenskapen har förhindrats på denna användarnivå.



KNAPPARNA PÅ MYVALLOX TOUCH-KONTROLLPANEL

< >	Med Pil -knappen kan du byta driftläge för ventilationsaggregatet.
i	Med knappen för uppgifter om ventilationen kan du se information om det aktiva läget och kontrollera uppgifterna om temperaturer och givare.
☰	Med Inställningar -knappen kan du öppna inställningsmenyn.
↶	Med Tillbaka -knappen kan du gå bakåt i menyn.
◀	Med Pil till vänster -knappen kan du gå till vänster i menyn.
▶	Med Pil till höger -knappen kan du gå till höger i menyn.
✓	Med Godkänn -knappen kan du godkänna det valda alternativet.
✗	Med Avvisa -knappen kan du avvisa det valda alternativet.
🎯	Med Välj -knappen kan du justera veckouret.
✎	Med Ändra -knappen kan du redigera inställningar.
+	Med Plus -knappen kan du: <ul style="list-style-type: none"> • Höja den valda inställningens värde.
-	Med Minus -knappen kan du: <ul style="list-style-type: none"> • Minska värdet på den valda inställningen.
▲	Med Pil uppåt -knappen kan du gå uppåt i menyn.
▼	Med Pil neråt -knappen kan du gå neråt i menyn.
📈	Med Statistik -knappen kan du öppna grafiken för temperatur, relativ luftfuktighet eller koldioxid (1 dag).



Modbus-inställningar med MyVallox kontrollpaneler

- => Professionella inställningar
- => I/O- och bussinställningar
- => Modbus-inställningar
- => Ange ventilationsaggregatets Modbus-adress Du kan välja en adress i intervallet 1–247.
- => Ange överföringshastighet för Modbus Alternativen är 9600, 19200, 38400, 57600 eller 115200.
- => Ange Modbus-knappar. Alternativen är:
 - nej – Ingen paritet
 - jämn – Jämn paritet.
 - udda – udda paritet.
- => ange stopptid (stop bit) för Modbus-buss. Alternativen är 1 eller 2.
- => Bekräfta inställningarna genom att klicka på **Godkänn**.

Modbus-inställningar via www-användargränssnitt

Modbus-inställningarna för MyVallox-ventilationsaggregat kan också göras via www-användargränssnitt. Det finns två alternativ:

- MyVallox Home-anslutning till lokalt nätverk
- MyVallox Cloud-molntjänst

1. Välj Professionella inställningar
2. Skrolla ner vyn tills du ser Modbus-inställningarna.

Modbus settings	
Address	1
Baud rate	19200
Parity	even
Stop bit	1

3. Tryck på **Ändra**-knappen.

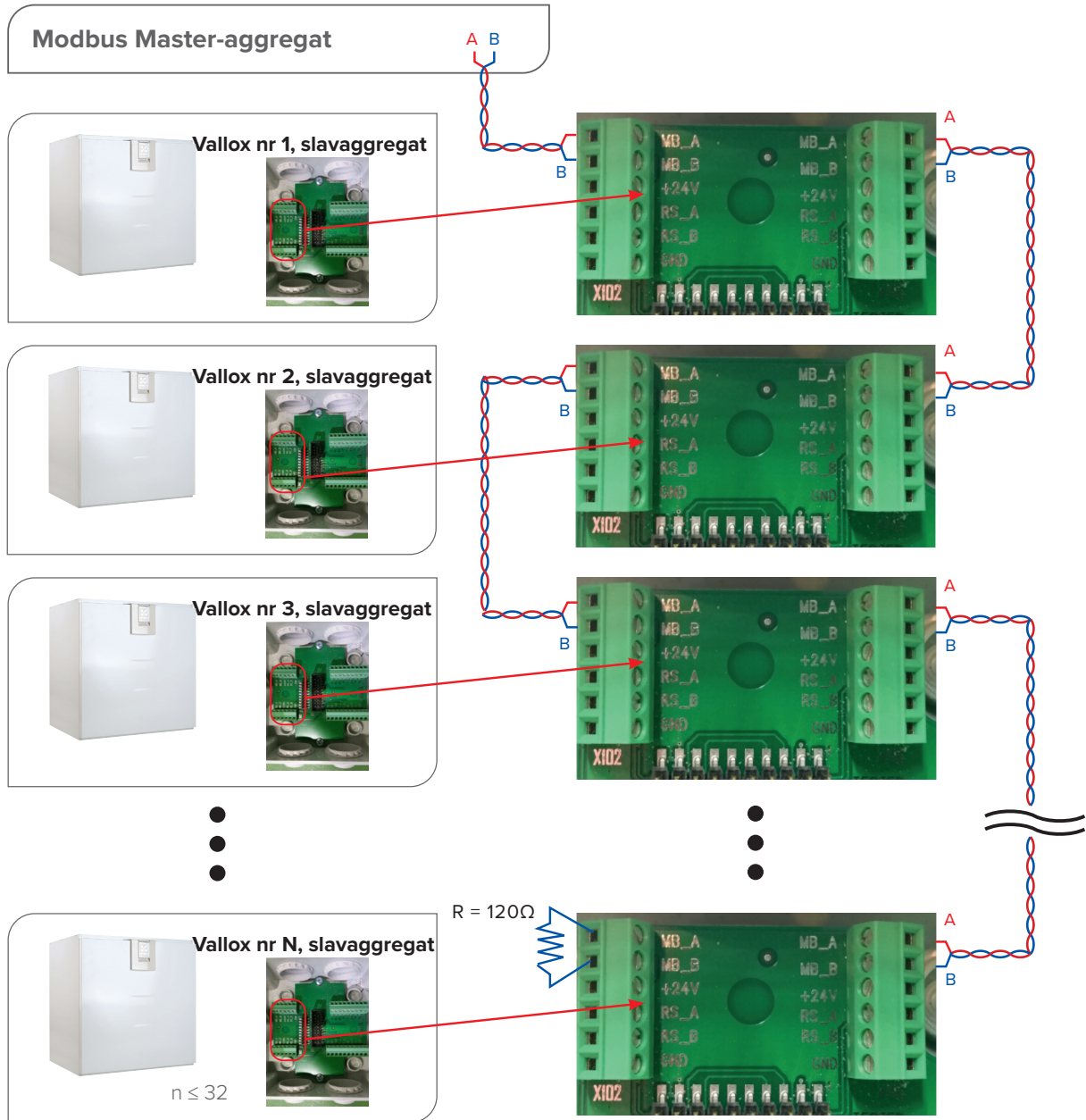


4. Vyn över Modbus-inställningarna öppnas i ändringsläget:

Modbus settings	
Address	<input type="text" value="1"/>
Baud rate	<input type="text" value="19200"/>
Parity	<input type="text" value="even"/>
Stop bit	<input type="text" value="1"/>

5. Ange ventilationsaggregatets Modbus-adress i adressfältet. Du kan ange adressen med det blåa reglaget. Du kan välja en adress i intervallet 1–247.
6. Välj Modbus-kopplingens uppkopplingshastighet i Överföringshastighetsmenyn (Baud rate). Alternativen är 9600, 19200, 38400, 57600 eller 115200.
7. Välj Modbus-kopplingens paritet i Paritet-menyn. Alternativen är:
 - nej – Ingen paritet
 - jämn – Jämn paritet.
 - udda – udda paritet.
8. Ange stopptid för Modbus-bussen i Stop-bit-fältet. Alternativen är 1 eller 2.
9. Tryck på **Godkänn**-knappen.
10. Modbus-inställningarna är nu klara.

ELSCHEMA



MODBUS-REGISTER

addr	Variable name	R/RW	min	max	Type	Description
4353	FAN_SPEED	R	0	100	%	Current fan speed
4354	TEMP_EXTRACT_AIR	R	21000	33224	cK	Temperature, extract, cell input
4355	TEMP_EXHAUST_AIR	R	21000	33224	cK	Temperature, extract, cell output
4356	TEMP_OUTDOOR_AIR	R	21000	33224	cK	Temperature, supply, cell input
4357	TEMP_SUPPLY_CELL_AIR	R	21000	33224	cK	Temperature, supply, cell output
4358	TEMP_SUPPLY_AIR	R	21000	33224	cK	Temperature, supply, heater output
4359	RH_LEVEL	R	0	3		RH level [no sensor, low, med, high]
4360	CO2_LEVEL	R	0	3		CO2 level [no sensor, low, med, high]
4361	EXTR_FAN_SPEED	R	0	10000	RPM	Extract fan speed
4362	SUPP_FAN_SPEED	R	0	10000	RPM	Supply fan speed
4363	RH_VALUE	R	0	100	%RH	RH value, highest measurement read, 0 = No sensor
4364	CO2_VALUE	R	0	10000	PPM	CO2 value, highest measurement read, 0 = No sensor
4365	CUSTOM_SWITCH	R	0	1		Digital input 1 state [off, on]
4366	DIGITAL_INPUT	R	0	1		Digital input 2 state [off, on]
4367	ANALOG_CTRL_INPUT	R	0	100	%	Analog control input state
4368	MULTISENSOR_CO2	R	0	65535	12bit	CO2 concentration from multisensor
4369	MULTISENSOR_TEMP	R	0	65535	12bit	Temperature from multisensor
4370	MULTISENSOR_RH	R	0	65535	12bit	Humidity from multisensor
4372	ANALOG_SENSOR_INPUT	R	0	65535	%RH	Internal %RH sensor, 65535 = No sensor [(value * 100 - 62039) / 2604]
4373	RH_SENSOR_0	R	0	65535	%RH	RH value from sensor 0, 65535 = No sensor
4374	RH_SENSOR_1	R	0	65535	%RH	RH value from sensor 1, 65535 = No sensor
4375	RH_SENSOR_2	R	0	65535	%RH	RH value from sensor 2, 65535 = No sensor
4376	RH_SENSOR_3	R	0	65535	%RH	RH value from sensor 3, 65535 = No sensor
4377	RH_SENSOR_4	R	0	65535	%RH	RH value from sensor 4, 65535 = No sensor
4378	RH_SENSOR_5	R	0	65535	%RH	RH value from sensor 5, 65535 = No sensor
4379	CO2_SENSOR_0	R	0	65535	PPM	CO2 value from sensor 0, 65535 = No sensor
4380	CO2_SENSOR_1	R	0	65535	PPM	CO2 value from sensor 1, 65535 = No sensor
4381	CO2_SENSOR_2	R	0	65535	PPM	CO2 value from sensor 2, 65535 = No sensor
4382	CO2_SENSOR_3	R	0	65535	PPM	CO2 value from sensor 3, 65535 = No sensor
4383	CO2_SENSOR_4	R	0	65535	PPM	CO2 value from sensor 4, 65535 = No sensor
4384	CO2_SENSOR_5	R	0	65535	PPM	CO2 value from sensor 5, 65535 = No sensor
4389	TEMP_OPTIONAL	R	20000	33224	cK	Optional external temperature sensor
4390	VOC_LEVEL	R	0	65535	PPM	VOC sensor highest value (Not used, locked to 1000)
4391	VOC_SENSOR_0	R	0	65535	PPM	VOC value from sensor 0, 65535 = No sensor
4392	VOC_SENSOR_1	R	0	65535	PPM	VOC value from sensor 1, 65535 = No sensor
4393	VOC_SENSOR_2	R	0	65535	PPM	VOC value from sensor 2, 65535 = No sensor
4394	VOC_SENSOR_3	R	0	65535	PPM	VOC value from sensor 3, 65535 = No sensor
4609	STATE	R/W	0	1		General state [Home, Away]
4610	MODE	R/W	0	7		Override state [0=Normal, 5 = Off]
4611	DEFROSTING	R/W	0	1		Defrosting [off, on]
4612	BOOST_TIMER	R/W	0	65535	min	Boost timer. Timer is enabled from 21766
4613	CUSTOM_TIMER	R/W	0	65535	min	Custom timer. Timer is enabled from 21767
4614	EXTRA_TIMER	R/W	0	65535	min	Extra input timer. Timer is enabled from 21772
4615	WEEKLY_TIMER_ENABLED	R/W	0	1		Weekly timer state [off, on]
4616	CELL_STATE	R	0	3		Cell state [heat recovery, cool recovery, bypass, defrosting]
4617	TOTAL_UP_TIME_YEARS	R	0	65535	a	Total up time
4618	TOTAL_UP_TIME_HOURS	R	0	8760	h	Total up time
4619	CURRENT_UP_TIME_HOURS	R	0	65535	h	Current up time

addr	Variable name	R/RW	min	max	Type	Description
4620	REMAINING_TIME_FOR_FILTER	R	0	365	days	Remaining time to filter change indication
4621	LIMP_MODE	R	0	1		Device fault active, device in limp mode [off, on]
4627	COMMAND	R/W	0	65535		Command variable
4628	MLV_STATE	R	0	1		“Earth heat” radiator state flag [off, on]
4849	MINUTE	R/W	0	59	minutes	Minutes of the current time
4850	HOUR	R/W	0	23	hours	Hours of the current time
4851	DAY	R/W	1	31	days	Days of the current date
4852	MONTH	R/W	1	12	months	Months of the current date
4853	YEAR	R/W	0	99	years	Years of the current date
4854	WEEKDAY	R	1	7	weekday	Weekday [Mon, Tue, Wed, ...]
8194	GW_ADDRESS_1	R	0	65535		Gateway address (0xAABB)
8195	GW_ADDRESS_2	R	0	65535		Gateway address (0xCCDD)
8196	MASK_ADDRESS_1	R	0	65535		Mask (0xAABB)
8197	MASK_ADDRESS_2	R	0	65535		Mask (0xCCDD)
8211	ETH_CLOUD_ENABLED	R/W	0	1		Outgoing connection to cloud [disabled, enabled]
8212	IP_ADDRESS_1	R	0	65535		IP address first two bytes (0xAABB)
8213	IP_ADDRESS_2	R	0	65535		IP address last two bytes (0xCCDD)
20482	MODBUS_ADDRESS	R/W	1	247	8bit addr.	Modbus address on remote bus 1 ... 247 (0xF7)
20483	MODBUS_BAUD_X100	R/W	96	1152		Baud * 100 Modbus speed on remote bus [96, 192, 384, 576, 1152]
20484	MODBUS_FRAME	R/W	0	514	8bit pair	Modbus data frame, MSB: parity 0...2 [no, even, odd]; LSB: stop bits 1...2
20485	EXTR_FAN_BALANCE_BASE	R/W	0	100	%	Extract fan speed balance ground value
20486	SUPP_FAN_BALANCE_BASE	R/W	0	100	%	Supply fan speed balance ground value
20487	CUSTOM_EXTR_FAN	R/W	0	100	%	Extract fan speed at custom mode
20488	CUSTOM_SUPP_FAN	R/W	0	100	%	Supply fan speed at custom mode
20490	RH_BASIC_LEVEL	R/W	0	65535	%	RH basic level, 65535 = not calculated
20491	CO2_THRESHOLD	R/W	500	2000	PPM	CO2 threshold
20493	EXTRA_AIR_TEMP_TARGET	R/W	27815	29815	cK	Supply air target temp at extra state
20494	EXTRA_EXTR_FAN	R/W	0	100	%	Extract fan speed at extra input
20495	EXTRA_SUPP_FAN	R/W	0	100	%	Supply fan speed at extra input
20496	EXTRA_TIME	R/W	1	65535	min	Extra input time
20499	AWAY_RH_CTRL_ENABLED	R/W	0	1		RH control in use, away [False, True]
20500	AWAY_CO2_CTRL_ENABLED	R/W	0	1		CO2 control in use, away [False, True]
20501	AWAY_SPEED_SETTING	R/W	0	100	%	Fan speed at away state
20502	AWAY_AIR_TEMP_TARGET	R/W	27815	29815	cK	Supply air target temp at away state
20505	HOME_RH_CTRL_ENABLED	R/W	0	1		RH control in use, home [False, True]
20506	HOME_CO2_CTRL_ENABLED	R/W	0	1		CO2 control in use, home [False, True]
20507	HOME_SPEED_SETTING	R/W	0	100	%	Fan speed at home state
20508	HOME_AIR_TEMP_TARGET	R/W	27815	29815	cK	Supply air target temp at home state
20511	BOOST_RH_CTRL_ENABLED	R/W	0	1		RH control in use, boost [False, True]
20512	BOOST_CO2_CTRL_ENABLED	R/W	0	1		CO2 control in use, boost [False, True]
20513	BOOST_SPEED_SETTING	R/W	0	100	%	Fan speed at boost state
20514	BOOST_AIR_TEMP_TARGET	R/W	27815	29815	cK	Supply air target temp at boost state
20517	RELAY_MODE	R/W	0	8	16bit value	Error relay mode [maintenance reminder, error, error and maintenance, emergency stop, bypass state, external radiator, none, airheater radiator, runstatus]
20518	DIGITAL_INPUT_1_MODE	R/W	0	8	16bit value	Digital input 1 mode [None, custom, home/away, kitchen hood, fire alarm (emergency stop), boost, bypass, weekly scheduler, programmable input]

addr	Variable name	R/RW	min	max	Type	Description
20519	DIGITAL_INPUT_2_MODE	R/W	0	8	16bit value	Digital input 2 mode [None, custom, home/away, kitchen hood, fire alarm (emergency stop), boost, bypass, weekly scheduler, programmable input]
20520	ANALOG_INPUT_MODE	R/W	0	3	16bit value	Analog input mode [None, Situation control, Temperature control, None]
20521	MLV_SUPPLY_LOWER_LIMIT	R/W	27815	29815	cK	MLV cooling lower limit for supply air [12C ... 25C]
20523	MLV_AUTO_MANUAL	R/W	0	1	16bit value	MLV control type [automatic, manual]
20529	MLV_SUMMER_SETPOINT	R/W	28315	29815	cK	MLV summer setpoint
20530	MLV_MODES	R/W	0	2	16bit value	MLV modes [heating and cooling, heating, cooling]
20531	MLV_WINTER_SETPOINT	R/W	26315	27815	cK	MLV winter setpoint
20537	FILTER_CHANGE_INTERVAL	R/W	30	365	days	Interval for filter change indicator (reload value)
20538	CELL_TYPE	R/W	0	2	16bit value	Heat recovery cell type [aluminium, plastic, enthalpy]
20539	EXTRA_HEATER_TYPE	R/W	0	2	16bit value	Extra heater type [None, Electric, Water]
20540	POST_HEATER_TYPE	R/W	0	2	16bit value	Post heater type [None, Electric, Water]
20543	RH_LEVEL_MODE	R/W	0	1		[Automatic level update, Manual]
20544	BOOST_TIME	R/W	1	65535	min	Boost timer load value
20545	CUSTOM_TIME	R/W	1	65535	min	Custom timer load value
20546	FILTER_CHANGED_DAY	R/W	1	31	days	Last filter change date
20547	FILTER_CHANGED_MONTH	R/W	1	12	months	Last filter change date
20548	FILTER_CHANGED_YEAR	R/W	0	99	years	Last filter change date
20549	SUPPLY_HEATING_ADJUST_MODE	R/W	0	3		Supply air heating method [supply heating, indoor constant control, indoor summer cooling, airheater]
20551	PARTIAL_BYPASS	R/W	0	2	16bit value	Partial bypass state [None, summer, always]
20552	BYPASS_LOCKED	R/W	0	1	16bit value	Bypass locked to winter position [open, locked]
20553	OPT_TEMP_SENSOR_MODE	R/W	0	3	16bit value	Opt. Sensor mode [None, MLV out, Airheater, MLV supply]
20554	POST_HEATER_WINTER_SETPOINT	R/W	25315	30315	cK	Post heater winter limit temperature
20555	DEWPOINT_LIMIT_IN_USE	R/W	0	1	16bit value	Use dew point limit in supply air setting [not in use, in use]
21764	ACCESS_LEVEL	R/W	0	2		Access level [free, limited, very limited]
21765	PARENTAL_CTRL_ENABLED	R/W	0	1		Parental control state [off, on]
21766	BOOST_TIMER_ENABLED	R/W	0	1		Boost timer enabled [off, on]
21767	CUSTOM_TIMER_ENABLED	R/W	0	1		Custom timer enabled [off, on]
21768	SUMMER_TIME_AUTO_ENAB	R/W	0	1		Automatic summer time [off, on]
21769	12_HOUR_CLOCK_ENABLED	R/W	0	1		12 hour clock [off, on]
21772	EXTRA_TIMER_ENABLED	R/W	0	1		Extra mode timer enabled [off, on]
40961	SCHEDULE_MONDAY_00	R/W	0	3		State at 00:00 on Monday [None, home, away, boost]
40962	SCHEDULE_MONDAY_01	R/W	0	3		State at 01:00 on Monday [None, home, away, boost]
40963	SCHEDULE_MONDAY_02	R/W	0	3		State at 02:00 on Monday [None, home, away, boost]
40964	SCHEDULE_MONDAY_03	R/W	0	3		State at 03:00 on Monday [None, home, away, boost]
40965	SCHEDULE_MONDAY_04	R/W	0	3		State at 04:00 on Monday [None, home, away, boost]
40966	SCHEDULE_MONDAY_05	R/W	0	3		State at 05:00 on Monday [None, home, away, boost]
40967	SCHEDULE_MONDAY_06	R/W	0	3		State at 06:00 on Monday [None, home, away, boost]
40968	SCHEDULE_MONDAY_07	R/W	0	3		State at 07:00 on Monday [None, home, away, boost]
40969	SCHEDULE_MONDAY_08	R/W	0	3		State at 08:00 on Monday [None, home, away, boost]
40970	SCHEDULE_MONDAY_09	R/W	0	3		State at 09:00 on Monday [None, home, away, boost]
40971	SCHEDULE_MONDAY_10	R/W	0	3		State at 10:00 on Monday [None, home, away, boost]
40972	SCHEDULE_MONDAY_11	R/W	0	3		State at 11:00 on Monday [None, home, away, boost]
40973	SCHEDULE_MONDAY_12	R/W	0	3		State at 12:00 on Monday [None, home, away, boost]
40974	SCHEDULE_MONDAY_13	R/W	0	3		State at 13:00 on Monday [None, home, away, boost]
40975	SCHEDULE_MONDAY_14	R/W	0	3		State at 14:00 on Monday [None, home, away, boost]
40976	SCHEDULE_MONDAY_15	R/W	0	3		State at 15:00 on Monday [None, home, away, boost]
40977	SCHEDULE_MONDAY_16	R/W	0	3		State at 16:00 on Monday [None, home, away, boost]
40978	SCHEDULE_MONDAY_17	R/W	0	3		State at 17:00 on Monday [None, home, away, boost]

addr	Variable name	R/RW	min	max	Type	Description
40979	SCHEDULE_MONDAY_18	R/W	0	3		State at 18:00 on Monday [None, home, away, boost]
40980	SCHEDULE_MONDAY_19	R/W	0	3		State at 19:00 on Monday [None, home, away, boost]
40981	SCHEDULE_MONDAY_20	R/W	0	3		State at 20:00 on Monday [None, home, away, boost]
40982	SCHEDULE_MONDAY_21	R/W	0	3		State at 21:00 on Monday [None, home, away, boost]
40983	SCHEDULE_MONDAY_22	R/W	0	3		State at 22:00 on Monday [None, home, away, boost]
40984	SCHEDULE_MONDAY_23	R/W	0	3		State at 23:00 on Monday [None, home, away, boost]
40985	SCHEDULE_TUESDAY_00	R/W	0	3		State at 00:00 on Tuesday [None, home, away, boost]
40986	SCHEDULE_TUESDAY_01	R/W	0	3		State at 01:00 on Tuesday [None, home, away, boost]
40987	SCHEDULE_TUESDAY_02	R/W	0	3		State at 02:00 on Tuesday [None, home, away, boost]
40988	SCHEDULE_TUESDAY_03	R/W	0	3		State at 03:00 on Tuesday [None, home, away, boost]
40989	SCHEDULE_TUESDAY_04	R/W	0	3		State at 04:00 on Tuesday [None, home, away, boost]
40990	SCHEDULE_TUESDAY_05	R/W	0	3		State at 05:00 on Tuesday [None, home, away, boost]
40991	SCHEDULE_TUESDAY_06	R/W	0	3		State at 06:00 on Tuesday [None, home, away, boost]
40992	SCHEDULE_TUESDAY_07	R/W	0	3		State at 07:00 on Tuesday [None, home, away, boost]
40993	SCHEDULE_TUESDAY_08	R/W	0	3		State at 08:00 on Tuesday [None, home, away, boost]
40994	SCHEDULE_TUESDAY_09	R/W	0	3		State at 09:00 on Tuesday [None, home, away, boost]
40995	SCHEDULE_TUESDAY_10	R/W	0	3		State at 10:00 on Tuesday [None, home, away, boost]
40996	SCHEDULE_TUESDAY_11	R/W	0	3		State at 11:00 on Tuesday [None, home, away, boost]
40997	SCHEDULE_TUESDAY_12	R/W	0	3		State at 12:00 on Tuesday [None, home, away, boost]
40998	SCHEDULE_TUESDAY_13	R/W	0	3		State at 13:00 on Tuesday [None, home, away, boost]
40999	SCHEDULE_TUESDAY_14	R/W	0	3		State at 14:00 on Tuesday [None, home, away, boost]
41000	SCHEDULE_TUESDAY_15	R/W	0	3		State at 15:00 on Tuesday [None, home, away, boost]
41001	SCHEDULE_TUESDAY_16	R/W	0	3		State at 16:00 on Tuesday [None, home, away, boost]
41002	SCHEDULE_TUESDAY_17	R/W	0	3		State at 17:00 on Tuesday [None, home, away, boost]
41003	SCHEDULE_TUESDAY_18	R/W	0	3		State at 18:00 on Tuesday [None, home, away, boost]
41004	SCHEDULE_TUESDAY_19	R/W	0	3		State at 19:00 on Tuesday [None, home, away, boost]
41005	SCHEDULE_TUESDAY_20	R/W	0	3		State at 20:00 on Tuesday [None, home, away, boost]
41006	SCHEDULE_TUESDAY_21	R/W	0	3		State at 21:00 on Tuesday [None, home, away, boost]
41007	SCHEDULE_TUESDAY_22	R/W	0	3		State at 22:00 on Tuesday [None, home, away, boost]
41008	SCHEDULE_TUESDAY_23	R/W	0	3		State at 23:00 on Tuesday [None, home, away, boost]
41009	SCHEDULE_WEDNESDAY_00	R/W	0	3		State at 00:00 on Wednesday [None, home, away, boost]
41010	SCHEDULE_WEDNESDAY_01	R/W	0	3		State at 01:00 on Wednesday [None, home, away, boost]
41011	SCHEDULE_WEDNESDAY_02	R/W	0	3		State at 02:00 on Wednesday [None, home, away, boost]
41012	SCHEDULE_WEDNESDAY_03	R/W	0	3		State at 03:00 on Wednesday [None, home, away, boost]
41013	SCHEDULE_WEDNESDAY_04	R/W	0	3		State at 04:00 on Wednesday [None, home, away, boost]
41014	SCHEDULE_WEDNESDAY_05	R/W	0	3		State at 05:00 on Wednesday [None, home, away, boost]
41015	SCHEDULE_WEDNESDAY_06	R/W	0	3		State at 06:00 on Wednesday [None, home, away, boost]
41016	SCHEDULE_WEDNESDAY_07	R/W	0	3		State at 07:00 on Wednesday [None, home, away, boost]
41017	SCHEDULE_WEDNESDAY_08	R/W	0	3		State at 08:00 on Wednesday [None, home, away, boost]
41018	SCHEDULE_WEDNESDAY_09	R/W	0	3		State at 09:00 on Wednesday [None, home, away, boost]
41019	SCHEDULE_WEDNESDAY_10	R/W	0	3		State at 10:00 on Wednesday [None, home, away, boost]
41020	SCHEDULE_WEDNESDAY_11	R/W	0	3		State at 11:00 on Wednesday [None, home, away, boost]
41021	SCHEDULE_WEDNESDAY_12	R/W	0	3		State at 12:00 on Wednesday [None, home, away, boost]
41022	SCHEDULE_WEDNESDAY_13	R/W	0	3		State at 13:00 on Wednesday [None, home, away, boost]
41023	SCHEDULE_WEDNESDAY_14	R/W	0	3		State at 14:00 on Wednesday [None, home, away, boost]
41024	SCHEDULE_WEDNESDAY_15	R/W	0	3		State at 15:00 on Wednesday [None, home, away, boost]
41025	SCHEDULE_WEDNESDAY_16	R/W	0	3		State at 16:00 on Wednesday [None, home, away, boost]
41026	SCHEDULE_WEDNESDAY_17	R/W	0	3		State at 17:00 on Wednesday [None, home, away, boost]
41027	SCHEDULE_WEDNESDAY_18	R/W	0	3		State at 18:00 on Wednesday [None, home, away, boost]
41028	SCHEDULE_WEDNESDAY_19	R/W	0	3		State at 19:00 on Wednesday [None, home, away, boost]

addr	Variable name	R/RW	min	max	Type	Description
41029	SCHEDULE_WEDNESDAY_20	R/W	0	3		State at 20:00 on Wednesday [None, home, away, boost]
41030	SCHEDULE_WEDNESDAY_21	R/W	0	3		State at 21:00 on Wednesday [None, home, away, boost]
41031	SCHEDULE_WEDNESDAY_22	R/W	0	3		State at 22:00 on Wednesday [None, home, away, boost]
41032	SCHEDULE_WEDNESDAY_23	R/W	0	3		State at 23:00 on Wednesday [None, home, away, boost]
41033	SCHEDULE_THURSDAY_00	R/W	0	3		State at 00:00 on Thursday [None, home, away, boost]
41034	SCHEDULE_THURSDAY_01	R/W	0	3		State at 01:00 on Thursday [None, home, away, boost]
41035	SCHEDULE_THURSDAY_02	R/W	0	3		State at 02:00 on Thursday [None, home, away, boost]
41036	SCHEDULE_THURSDAY_03	R/W	0	3		State at 03:00 on Thursday [None, home, away, boost]
41037	SCHEDULE_THURSDAY_04	R/W	0	3		State at 04:00 on Thursday [None, home, away, boost]
41038	SCHEDULE_THURSDAY_05	R/W	0	3		State at 05:00 on Thursday [None, home, away, boost]
41039	SCHEDULE_THURSDAY_06	R/W	0	3		State at 06:00 on Thursday [None, home, away, boost]
41040	SCHEDULE_THURSDAY_07	R/W	0	3		State at 07:00 on Thursday [None, home, away, boost]
41041	SCHEDULE_THURSDAY_08	R/W	0	3		State at 08:00 on Thursday [None, home, away, boost]
41042	SCHEDULE_THURSDAY_09	R/W	0	3		State at 09:00 on Thursday [None, home, away, boost]
41043	SCHEDULE_THURSDAY_10	R/W	0	3		State at 10:00 on Thursday [None, home, away, boost]
41044	SCHEDULE_THURSDAY_11	R/W	0	3		State at 11:00 on Thursday [None, home, away, boost]
41045	SCHEDULE_THURSDAY_12	R/W	0	3		State at 12:00 on Thursday [None, home, away, boost]
41046	SCHEDULE_THURSDAY_13	R/W	0	3		State at 13:00 on Thursday [None, home, away, boost]
41047	SCHEDULE_THURSDAY_14	R/W	0	3		State at 14:00 on Thursday [None, home, away, boost]
41048	SCHEDULE_THURSDAY_15	R/W	0	3		State at 15:00 on Thursday [None, home, away, boost]
41049	SCHEDULE_THURSDAY_16	R/W	0	3		State at 16:00 on Thursday [None, home, away, boost]
41050	SCHEDULE_THURSDAY_17	R/W	0	3		State at 17:00 on Thursday [None, home, away, boost]
41051	SCHEDULE_THURSDAY_18	R/W	0	3		State at 18:00 on Thursday [None, home, away, boost]
41052	SCHEDULE_THURSDAY_19	R/W	0	3		State at 19:00 on Thursday [None, home, away, boost]
41053	SCHEDULE_THURSDAY_20	R/W	0	3		State at 20:00 on Thursday [None, home, away, boost]
41054	SCHEDULE_THURSDAY_21	R/W	0	3		State at 21:00 on Thursday [None, home, away, boost]
41055	SCHEDULE_THURSDAY_22	R/W	0	3		State at 22:00 on Thursday [None, home, away, boost]
41056	SCHEDULE_THURSDAY_23	R/W	0	3		State at 23:00 on Thursday [None, home, away, boost]
41057	SCHEDULE_FRIDAY_00	R/W	0	3		State at 00:00 on Friday [None, home, away, boost]
41058	SCHEDULE_FRIDAY_01	R/W	0	3		State at 01:00 on Friday [None, home, away, boost]
41059	SCHEDULE_FRIDAY_02	R/W	0	3		State at 02:00 on Friday [None, home, away, boost]
41060	SCHEDULE_FRIDAY_03	R/W	0	3		State at 03:00 on Friday [None, home, away, boost]
41061	SCHEDULE_FRIDAY_04	R/W	0	3		State at 04:00 on Friday [None, home, away, boost]
41062	SCHEDULE_FRIDAY_05	R/W	0	3		State at 05:00 on Friday [None, home, away, boost]
41063	SCHEDULE_FRIDAY_06	R/W	0	3		State at 06:00 on Friday [None, home, away, boost]
41064	SCHEDULE_FRIDAY_07	R/W	0	3		State at 07:00 on Friday [None, home, away, boost]
41065	SCHEDULE_FRIDAY_08	R/W	0	3		State at 08:00 on Friday [None, home, away, boost]
41066	SCHEDULE_FRIDAY_09	R/W	0	3		State at 09:00 on Friday [None, home, away, boost]
41067	SCHEDULE_FRIDAY_10	R/W	0	3		State at 10:00 on Friday [None, home, away, boost]
41068	SCHEDULE_FRIDAY_11	R/W	0	3		State at 11:00 on Friday [None, home, away, boost]
41069	SCHEDULE_FRIDAY_12	R/W	0	3		State at 12:00 on Friday [None, home, away, boost]
41070	SCHEDULE_FRIDAY_13	R/W	0	3		State at 13:00 on Friday [None, home, away, boost]
41071	SCHEDULE_FRIDAY_14	R/W	0	3		State at 14:00 on Friday [None, home, away, boost]
41072	SCHEDULE_FRIDAY_15	R/W	0	3		State at 15:00 on Friday [None, home, away, boost]
41073	SCHEDULE_FRIDAY_16	R/W	0	3		State at 16:00 on Friday [None, home, away, boost]
41074	SCHEDULE_FRIDAY_17	R/W	0	3		State at 17:00 on Friday [None, home, away, boost]
41075	SCHEDULE_FRIDAY_18	R/W	0	3		State at 18:00 on Friday [None, home, away, boost]
41076	SCHEDULE_FRIDAY_19	R/W	0	3		State at 19:00 on Friday [None, home, away, boost]
41077	SCHEDULE_FRIDAY_20	R/W	0	3		State at 20:00 on Friday [None, home, away, boost]
41078	SCHEDULE_FRIDAY_21	R/W	0	3		State at 21:00 on Friday [None, home, away, boost]

addr	Variable name	R/RW	min	max	Type	Description
41079	SCHEDULE_FRIDAY_22	R/W	0	3		State at 22:00 on Friday [None, home, away, boost]
41080	SCHEDULE_FRIDAY_23	R/W	0	3		State at 23:00 on Friday [None, home, away, boost]
41081	SCHEDULE_SATURDAY_00	R/W	0	3		State at 00:00 on Saturday [None, home, away, boost]
41082	SCHEDULE_SATURDAY_01	R/W	0	3		State at 01:00 on Saturday [None, home, away, boost]
41083	SCHEDULE_SATURDAY_02	R/W	0	3		State at 02:00 on Saturday [None, home, away, boost]
41084	SCHEDULE_SATURDAY_03	R/W	0	3		State at 03:00 on Saturday [None, home, away, boost]
41085	SCHEDULE_SATURDAY_04	R/W	0	3		State at 04:00 on Saturday [None, home, away, boost]
41086	SCHEDULE_SATURDAY_05	R/W	0	3		State at 05:00 on Saturday [None, home, away, boost]
41087	SCHEDULE_SATURDAY_06	R/W	0	3		State at 06:00 on Saturday [None, home, away, boost]
41088	SCHEDULE_SATURDAY_07	R/W	0	3		State at 07:00 on Saturday [None, home, away, boost]
41089	SCHEDULE_SATURDAY_08	R/W	0	3		State at 08:00 on Saturday [None, home, away, boost]
41090	SCHEDULE_SATURDAY_09	R/W	0	3		State at 09:00 on Saturday [None, home, away, boost]
41091	SCHEDULE_SATURDAY_10	R/W	0	3		State at 10:00 on Saturday [None, home, away, boost]
41092	SCHEDULE_SATURDAY_11	R/W	0	3		State at 11:00 on Saturday [None, home, away, boost]
41093	SCHEDULE_SATURDAY_12	R/W	0	3		State at 12:00 on Saturday [None, home, away, boost]
41094	SCHEDULE_SATURDAY_13	R/W	0	3		State at 13:00 on Saturday [None, home, away, boost]
41095	SCHEDULE_SATURDAY_14	R/W	0	3		State at 14:00 on Saturday [None, home, away, boost]
41096	SCHEDULE_SATURDAY_15	R/RW	0	3		State at 15:00 on Saturday [None, home, away, boost]
41097	SCHEDULE_SATURDAY_16	R/W	0	3		State at 16:00 on Saturday [None, home, away, boost]
41098	SCHEDULE_SATURDAY_17	R/W	0	3		State at 17:00 on Saturday [None, home, away, boost]
41099	SCHEDULE_SATURDAY_18	R/W	0	3		State at 18:00 on Saturday [None, home, away, boost]
41100	SCHEDULE_SATURDAY_19	R/W	0	3		State at 19:00 on Saturday [None, home, away, boost]
41101	SCHEDULE_SATURDAY_20	R/W	0	3		State at 20:00 on Saturday [None, home, away, boost]
41102	SCHEDULE_SATURDAY_21	R/W	0	3		State at 21:00 on Saturday [None, home, away, boost]
41103	SCHEDULE_SATURDAY_22	R/W	0	3		State at 22:00 on Saturday [None, home, away, boost]
41104	SCHEDULE_SATURDAY_23	R/W	0	3		State at 23:00 on Saturday [None, home, away, boost]
41105	SCHEDULE_SUNDAY_00	R/W	0	3		State at 00:00 on Sunday [None, home, away, boost]
41106	SCHEDULE_SUNDAY_01	R/W	0	3		State at 01:00 on Sunday [None, home, away, boost]
41107	SCHEDULE_SUNDAY_02	R/W	0	3		State at 02:00 on Sunday [None, home, away, boost]
41108	SCHEDULE_SUNDAY_03	R/W	0	3		State at 03:00 on Sunday [None, home, away, boost]
41109	SCHEDULE_SUNDAY_04	R/W	0	3		State at 04:00 on Sunday [None, home, away, boost]
41110	SCHEDULE_SUNDAY_05	R/W	0	3		State at 05:00 on Sunday [None, home, away, boost]
41111	SCHEDULE_SUNDAY_06	R/W	0	3		State at 06:00 on Sunday [None, home, away, boost]
41112	SCHEDULE_SUNDAY_07	R/W	0	3		State at 07:00 on Sunday [None, home, away, boost]
41113	SCHEDULE_SUNDAY_08	R/W	0	3		State at 08:00 on Sunday [None, home, away, boost]
41114	SCHEDULE_SUNDAY_09	R/W	0	3		State at 09:00 on Sunday [None, home, away, boost]
41115	SCHEDULE_SUNDAY_10	R/W	0	3		State at 10:00 on Sunday [None, home, away, boost]
41116	SCHEDULE_SUNDAY_11	R/W	0	3		State at 11:00 on Sunday [None, home, away, boost]
41117	SCHEDULE_SUNDAY_12	R/W	0	3		State at 12:00 on Sunday [None, home, away, boost]
41118	SCHEDULE_SUNDAY_13	R/W	0	3		State at 13:00 on Sunday [None, home, away, boost]
41119	SCHEDULE_SUNDAY_14	R/W	0	3		State at 14:00 on Sunday [None, home, away, boost]
41120	SCHEDULE_SUNDAY_15	R/W	0	3		State at 15:00 on Sunday [None, home, away, boost]
41121	SCHEDULE_SUNDAY_16	R/W	0	3		State at 16:00 on Sunday [None, home, away, boost]
41122	SCHEDULE_SUNDAY_17	R/W	0	3		State at 17:00 on Sunday [None, home, away, boost]
41123	SCHEDULE_SUNDAY_18	R/W	0	3		State at 18:00 on Sunday [None, home, away, boost]
41124	SCHEDULE_SUNDAY_19	R/W	0	3		State at 19:00 on Sunday [None, home, away, boost]
41125	SCHEDULE_SUNDAY_20	R/W	0	3		State at 20:00 on Sunday [None, home, away, boost]
41126	SCHEDULE_SUNDAY_21	R/W	0	3		State at 21:00 on Sunday [None, home, away, boost]
41127	SCHEDULE_SUNDAY_22	R/W	0	3		State at 22:00 on Sunday [None, home, away, boost]
41128	SCHEDULE_SUNDAY_23	R/W	0	3		State at 23:00 on Sunday [None, home, away, boost]

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