
SAVE Modbus variable list



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Introduction

Modbus is a widely-used serial communication protocol in industrial automation, designed to transmit data over serial lines such as RS-232 and RS-485, and also over Ethernet (Modbus TCP/IP).

The device that requests the information is called a “master” while devices that give the requested information are called “slaves”. A single master device communicates with multiple slave devices, initiates queries and receives responses.

Modbus is valued for its simplicity and reliability, with a straightforward message structure that includes an address field, function code, data field, and an error check field. Its open protocol nature promotes interoperability between devices from different manufacturers.

To connect

All SAVE ventilation units have a standard and readily available Modbus/RTU connection on the connection board marked A(+), B(-), GND.

Alternative Modbus/TCP connection can be made over TCP/IP with use Modbus RTU to TCP gateway accessory (item number: 454345).

Table 1 Modbus connection information

Slave address: 1 to 247 (default setting is 1)
Baud Rate: 9600 to 115200 (default setting is 115200)
Parity: None, Even, Odd (default setting is None)
Stop Bits: 1 (fixed value)

Parameters can be changed in the SAVE TOUCH control panel: **Service** > **Communication** > **Modbus**.

Limitations

Do not to exceed 200 000 writes to Modbus registers given in the table.

Transmission modes

Input registers (read-only) and Holding registers (read-write) are supported in Modbus protocol.

All registers are 16 bit integers.

Table 2 Register types used

Input Registers	IR	16-bit quantity, analog Input Register provided by an I/O system, read-only, Modbus Function 04
Holding Registers	HR	16-bit quantity, analog output Holding Register can be changed by an application program, read-write, Modbus function 03 / 06 / 16

Table 3 Signal types used

Unsigned integers	I
Signed integers	I*

When this limit is exceeded:

1. Saved data in memory is no longer reliable and can be corrupted.
2. After SAVE ventilation unit power on the Modbus register values will return to the last reliable data. Factory settings are restored if there is no reliable data on memory.

Name	Modbus register number	Description
REG_USERMODE_HOLIDAY_TIME	1101	Duration setting for user mode Holiday, days.
REG_USERMODE_AWAY_TIME	1102	Duration setting for user mode Away, hours.
REG_USERMODE_FIREPLACE_TIME	1103	Duration setting for user mode Fireplace, minutes.
REG_USERMODE_REFRESH_TIME	1104	Duration setting for user mode Refresh, minutes.
REG_USERMODE_CROWDED_TIME	1105	Duration setting for user mode Crowded, hours.

REG_USERMODE_MANUAL_AIRFLOW_LEVEL_SAF	1131	Fan speed level for mode Manual. Applies to both the supply and the extract air fans: 0: Off* 1: Not used 2: Low 3: Normal 4: High * value Offonly allowed if 1353 register value is 1.
REG_FAN_MANUAL_STOP_ALLOWED	1353	Allow manual fan stop (also as selection for user modes and Week schedule): 0: Manual Fan Stop not allowed 1: Manual Fan Stop is allowed
REG_FAN_LEVEL_SAF_MIN_PERCENTAGE	1401	Minimum supply air fan speed setting, %.
REG_FAN_LEVEL_EAF_MIN_PERCENTAGE	1402	Minimum extract air fan speed setting, %.
REG_FAN_LEVEL_SAF_LOW_PERCENTAGE	1403	Low supply air fan speed setting, %.
REG_FAN_LEVEL_EAF_LOW_PERCENTAGE	1404	Low extract air fan speed setting, %.
REG_FAN_LEVEL_SAF_NORMAL_PERCENTAGE	1405	Normal supply air fan speed setting, %.
REG_FAN_LEVEL_EAF_NORMAL_PERCENTAGE	1406	Normal extract air fan speed setting, %.
REG_FAN_LEVEL_SAF_HIGH_PERCENTAGE	1407	High supply air fan speed setting, %.
REG_FAN_LEVEL_EAF_HIGH_PERCENTAGE	1408	High extract air fan speed setting, %.
REG_FAN_LEVEL_SAF_MAX_PERCENTAGE	1409	Maximum supply air fan speed setting, %.
REG_FAN_LEVEL_EAF_MAX_PERCENTAGE	1410	Maximum extract air fan speed setting, %.
REG_TC_SP	2001	User temperature set point.
REG_ECO_MODE_ON_OFF	2505	ECO mode configuration status: 0: Disabled 1: Enabled.
REG_TIME_AUTO_SUM_WIN	6007	Daylight saving status: 0: Disabled 1: Enabled
REG_HOUR_FORMAT	6008	Hour format 0: 24H 1: 12H

Modbus variable list

User modes

Name	Signal type	Modbus register type	Modbus register number	Min value	Max value	Description
REG_USERMODE_REMAINING_TIME_L	I	IR	1111	0	65536	Remaining time for the state Holiday/Away/Fireplace/Refresh/Crowded. Active user mode remaining time, seconds.
REG_USERMODE_REMAINING_TIME_H	I	IR	1112	0	65536	Remaining time for the state Holiday/Away/Fireplace/Refresh/Crowded. Active user mode remaining time, seconds.
REG_USERMODE_MODE	I	IR	1161	0	12	Active User mode: 0: Auto 1: Manual 2: Crowded 3: Refresh 4: Fireplace 5: Away 6: Holiday 7: Cooker Hood 8: Vacuum cleaner 9: Configurable DI 1 10: Configurable DI 2 11: Configurable DI 3 12: Pressure guard
REG_USERMODE_HMI_CHANGE_REQUEST	I	HR	1162	1	7	Activation of required user mode. New desired user mode: 1: Auto 2: Manual 3: Crowded 4: Refresh 5: Fireplace 6: Away 7: Holiday
REG_USERMODE_HOLIDAY_TIME	I	HR	1101	1	365	Duration setting for user mode Holiday, days.
REG_USERMODE_AWAY_TIME	I	HR	1102	1	72	Duration setting for user mode Away, hours.
REG_USERMODE_FIREPLACE_TIME	I	HR	1103	1	60	Duration setting for user mode Fireplace, minutes.
REG_USERMODE_REFRESH_TIME	I	HR	1104	1	240	Duration setting for user mode Refresh, minutes.
REG_USERMODE_CROWDED_TIME	I	HR	1105	1	8	Duration setting for user mode Crowded, hours.

Note:

Remaining user mode time = $(65535 * \text{REG_USERMODE_REMAINING_TIME_H}) + \text{REG_USERMODE_REMAINING_TIME_L}$

Example:

$\text{REG_USERMODE_REMAINING_TIME_L} = 61981$

$\text{REG_USERMODE_REMAINING_TIME_H} = 3$

Remaining user mode time = $(65535 * 3) + 61981 = 258586$ seconds

Fans

Name	Signal type	Modbus register type	Modbus register number	Min value	Max value	Description
REG_MANUAL_OVERRIDE_F_INPUT_UI_SAF_C_MODE	I	HR	12929	0	1	External supply air control allowance: 0 - Not allowed 1- Allowed
REG_MANUAL_OVERRIDE_F_INPUT_UI_EAF_C_MODE	I	HR	12930	0	1	External extract air control allowance: 0 - Not allowed 1- Allowed
REG_MANUAL_OVERRIDE_F_INPUT_UI_SAF_C_VALUE	I	HR	12979	0	100	Supply fan control value from external device.
REG_MANUAL_OVERRIDE_F_INPUT_UI_EAF_C_VALUE	I	HR	12980	0	100	Extract fan control value from external device.
REG_USERMODE_MANUAL_AIRFLOW_LEVEL_SAF	I	HR	1131	0	4	Fan speed level for mode Manual. Applies to both the supply and the extract air fans: 0: Off* 1: Not used 2: Low 3: Normal 4: High * value Off only allowed if 1353 register value is 1.
REG_FAN_MANUAL_STOP_ALLOWED	I	HR	1353	0	1	Allow manual fan stop (also as selection for user modes and Week schedule): 0: Manual Fan Stop not allowed 1: Manual Fan Stop is allowed
REG_FAN_LEVEL_SAF_MIN_PERCENTAGE	I	HR	1401	16	100	Minimum supply air fan speed setting, %.
REG_FAN_LEVEL_EAF_MIN_PERCENTAGE	I	HR	1402	16	100	Minimum extract air fan speed setting, %.
REG_FAN_LEVEL_SAF_LOW_PERCENTAGE	I	HR	1403	16	100	Low supply air fan speed setting, %.
REG_FAN_LEVEL_EAF_LOW_PERCENTAGE	I	HR	1404	16	100	Low extract air fan speed setting, %.
REG_FAN_LEVEL_SAF_NORMAL_PERCENTAGE	I	HR	1405	16	100	Normal supply air fan speed setting, %.
REG_FAN_LEVEL_EAF_NORMAL_PERCENTAGE	I	HR	1406	16	100	Normal extract air fan speed setting, %.
REG_FAN_LEVEL_SAF_HIGH_PERCENTAGE	I	HR	1407	16	100	High supply air fan speed setting, %.
REG_FAN_LEVEL_EAF_HIGH_PERCENTAGE	I	HR	1408	16	100	High extract air fan speed setting, %.
REG_FAN_LEVEL_SAF_MAX_PERCENTAGE	I	HR	1409	16	100	Maximum supply air fan speed setting, %.
REG_FAN_LEVEL_EAF_MAX_PERCENTAGE	I	HR	1410	16	100	Maximum extract air fan speed setting, %.
REG_SENSOR_RPM_SAF	I	IR	12401	0	65536	Supply Air Fan RPM indication.
REG_SENSOR_RPM_EAF	I	IR	12402	0	65536	Extract Air Fan RPM indication.
REG_OUTPUT_SAF	I	IR	14001	16	100	Supply air fan output, %.
REG_OUTPUT_EAF	I	IR	14002	16	100	Extract air fan output, %.

Name	Signal type	Modbus register type	Modbus register number	Min value	Max value	Description
REG_ALARM_SAF_RPM_ALARM	I	IR	15030	0	3	Supply air fan rotation alarm status: 0 - Inactive 1 - Active 2 - Alarm delay counting 3 - Acknowledged
REG_ALARM_SAF_RPM_CLEAR_ALARM	I	HR	15031	0	1	Supply air fan rotation indication alarm actions: 0 - No action 1 - Clear alarm
REG_ALARM_EAF_RPM_ALARM	I	IR	15037	0	3	Extract air fan rotation alarm status: 0 - Inactive 1 - Active 2 - Alarm delay counting 3 - Acknowledged
REG_ALARM_EAF_RPM_CLEAR_ALARM	I	HR	15038	0	1	Extract air fan rotation indication alarm actions: 0 - No action 1 - Clear alarm

To control fans over Modbus

To enable the external fan control over Modbus communication:

- Go to the menu **Components** > **Control Regulation** > **Fan Control**. Change the airflow type to **External**.
- Go to the menu **Components** > **Input** > **UNIVERSAL**.
 - Select any free input and configure it as **Analog Input** > **Supply Air Fan Control (SAFC)**
 - Select any free input and configure it as **Analog Input** > **Extract Air Fan Control (EAFC)**
- Change the user mode to **Auto**. To change the user mode use the control panel or mobile app. Alternatively, change the value of Modbus register 1162 to 1.
- Change the value of Modbus register 12929 and 12930 to 1.
- Change the supply fan speed value from 0 to 100% with Modbus register 12979.

Change the extract air fan speed value from 0 to 100% with Modbus register 12980.

Note:

The values of Modbus registers 12929, 12930, 12979, 12980 will change to 0 after power off of the SAVE ventilation unit.

Restore the user required values after each power supply disconnection.

Airflow

Name	Signal type	Modbus register type	Modbus register number	Min value	Max value	Description
REG_SENSOR_FLOW_SAF	I	IR	12203	0	65536	Supply air fan flow indication, l/s, m3h, cfm (depends on SAVE unit configuration). Available only if the external measurement is installed.
REG_SENSOR_FLOW_EAF	I	IR	12204	0	65536	Extract air fan flow indication, l/s, m3h, cfm (depends on SAVE unit configuration). Available only if the external measurement is installed.
REG_SENSOR_FLOW_PIGGYBACK_SAF	I	IR	12403	0	65536	Supply air fan flow indication, l/s, m3h, cfm (depends on SAVE unit configuration). Available only if the internal measurement is installed.

Name	Signal type	Modbus register type	Modbus register number	Min value	Max value	Description
REG_SENSOR_FLOW_PIGGYBACK_EAF	I	IR	12404	0	65536	Extract air fan flow indication, l/s, m3h, cfm (depends on SAVE unit configuration). Available only if the internal measurement is installed.
REG_ALARM_SAF_CTRL_ALARM	I	IR	15002	0	3	Supply air fan flow indication alarm status: 0 - Inactive 1 - Active 2 - Alarm delay counting 3 - Acknowledged.
REG_ALARM_SAF_CTRL_CLEAR_ALARM	I	HR	15003	0	1	Supply air fan flow indication alarm action: 0 - No action 1 - Clear alarm.
REG_ALARM_EAF_CTRL_ALARM	I	IR	15009	0	3	Extract air fan flow indication alarm status: 0 - Inactive 1 - Active 2 - Alarm delay counting 3 - Acknowledged.
REG_ALARM_EAF_CTRL_CLEAR_ALARM	I	HR	15010	0	1	Extract air fan flow indication alarm action: 0 - No action 1 - Clear alarm.

Air pressure

Name	Signal type	Modbus register type	Modbus register number	Min value	Max value	Description
REG_SENSOR_P_SAF	I	IR	12201	0	65536	Supply air fan pressure indication, Pa. Available only if the external pressure measurement is installed.
REG_SENSOR_P_EAF	I	IR	12202	0	65536	Extract air fan pressure indication, Pa. Available only if the external pressure measurement is installed.
REG_ALARM_SAF_CTRL_ALARM	I	IR	15002	0	3	Supply air fan flow indication alarm status: 0 - Inactive 1 - Active 2 - Alarm delay counting 3 - Acknowledged.
REG_ALARM_SAF_CTRL_CLEAR_ALARM	I	HR	15003	0	1	Supply air fan flow indication alarm action: 0 - No action 1 - Clear alarm.
REG_ALARM_EAF_CTRL_ALARM	I	IR	15009	0	3	Extract air fan flow indication alarm status: 0 - Inactive 1 - Active 2 - Alarm delay counting 3 - Acknowledged.
REG_ALARM_EAF_CTRL_CLEAR_ALARM	I	HR	15010	0	1	Extract air fan flow indication alarm action: 0 - No action 1 - Clear alarm.

Temperature control

Name	Signal type	Modbus register type	Modbus register number	Min value	Max value	Description
REG_TC_SP	I*	HR	2001	120	300	User temperature set point.
REG_ECO_MODE_ON_OFF	I	HR	2505	0	1	ECO mode configuration status: 0: Disabled 1: Enabled.
REG_SENSOR_OAT	I*	IR	12102	0	65536	Outdoor air temperature sensor value
REG_SENSOR_SAT	I*	IR	12103	0	65536	Supply air temperature sensor value
REG_SENSOR_RAT	I*	IR	12104	0	65536	Room air temperature sensor value
REG_SENSOR_EAT	I*	IR	12105	0	65536	Extract air temperature sensor value
REG_SENSOR_PDM_EAT_VALUE	I*	IR	12544	0	65536	In-built extract air temperature sensor value.
REG_SENSOR_RHS_PDM	I	IR	12136	0	100	In-built extract air relative humidity sensor value, %.

Note:

If the temperature sensor reading is higher than 60000: $\text{Temperature} = (\text{REG_SENSOR_} * - 65536) / 10$

If temperature sensor reading is lower than 60000: $\text{Temperature} = \text{REG_SENSOR_} * / 10$

Example:

$\text{REG_SENSOR_OAT} = 61981$

$\text{REG_SENSOR_OAT} = (65487 - 65536) / 10 = -4,9\text{ }^{\circ}\text{C}$

$\text{REG_SENSOR_OAT} = 202$

$\text{REG_SENSOR_OAT} = 202 / 10 = 20,2\text{ }^{\circ}\text{C}$

Heat exchanger

Name	Signal type	Modbus register type	Modbus register number	Min value	Max value	Description
REG_HEAT_EXCHANGER_FROM_SATC	I	IR	2141	0	100	Heat recovery demand by temperature control, %.
REG_OUTPUT_Y2_ANALOG	I	IR	14103	0	100	Heat Exchanger analog output, %.
REG_SENSOR_EFT	I*	IR	12107	0	65536	Efficiency temperature sensor value.
REG_ALARM_RGS_ALARM	I	IR	15121	0	3	Rotary heat exchanger rotation alarm status: 0 - Inactive 1 - Active 2 - Alarm delay counting 3 - Acknowledged
REG_ALARM_RGS_CLEAR_ALARM	I	HR	15122	0	1	Rotary heat exchanger rotation alarm actions: 0 - No action 1 - Clear alarm
REG_ALARM_BYF_ALARM	I	IR	15184	0	3	Plate heat exchanger operation alarm status: 0 - Inactive 1 - Active 2 - Alarm delay counting 3 - Acknowledged
REG_ALARM_BYF_CLEAR_ALARM	I	HR	15185	0	1	Plate heat exchanger operation alarm actions: 0 - No action 1 - Clear alarm

Heater

Name	Signal type	Modbus register type	Modbus register number	Min value	Max value	Description
REG_HEATER_FROM_SATC	I	IR	2114	0	100	Heating demand by temperature control, %.
REG_PWM_TRIAC_OUTPUT	I	IR	2149	0	100	Heater TRIAC output, %.
REG_OUTPUT_Y1_ANALOG	I	IR	14101	0	100	Heater analog output, %. Available only if heater with analog output control is installed.
REG_OUTPUT_Y1_DIGITAL	I	IR	14102	0	1	Heater digital output state: 0: Output inactive 1: Output active Available only if heater with digital output control is installed.
REG_OUTPUT_Y1_CIRC_PUMP	I	IR	14301	0	1	Heater circulation pump digital output state: 0: Off 1: On. Available only if the circulation pump for the heater with digital output control is installed.
REG_SENSOR_OHT	I*	IR	12108	0	65536	Overheat temperature sensor value.
REG_SENSOR_FPT	I*	IR	12101	0	65536	Frost protection temperature sensor.

Name	Signal type	Modbus register type	Modbus register number	Min value	Max value	Description
REG_ALARM_EMT_ALARM	I	IR	15114	0	3	Electrical heater emergency thermostat alarm status: 0 - Inactive 1 - Active 2 - Alarm delay counting 3 - Acknowledged Only for the in-built electrical heater.
REG_ALARM_EMT_CLEAR_ALARM	I	HR	15115	0	1	Electrical heater emergency thermostat alarm actions: 0 - No action 1 - Clear alarm Only for the in-built electrical heater.
REG_ALARM_FROST_PROT_ALARM	I	IR	15016	0	3	Frost protection alarm status: 0 - Inactive 1 - Active 2 - Alarm delay counting 3 - Acknowledged Only for water the heater.
REG_ALARM_FROST_PROT_CLEAR_ALARM	I	HR	15017	0	1	Frost protection alarm actions: 0 - No action 1 - Clear alarm Only for the water heater.

Note:

If the temperature sensor reading is higher than 60000: $\text{Temperature} = (\text{REG_SENSOR_}^* - 65536) / 10$

If temperature sensor reading is lower than 60000: $\text{Temperature} = \text{REG_SENSOR_}^* / 10$

Example:

$\text{REG_SENSOR_}^* = 61981$

$\text{REG_SENSOR_}^* = (65487 - 65536) / 10 = -4,9\text{ }^{\circ}\text{C}$

$\text{REG_SENSOR_}^* = 202$

$\text{REG_SENSOR_}^* = 202 / 10 = 20,2\text{ }^{\circ}\text{C}$

Cooler

Name	Signal type	Modbus register type	Modbus register number	Min value	Max value	Description
REG_COOLER_FROM_SATC	I	IR	2311	0	100	Cooling demand by temperature control, %.
REG_OUTPUT_Y3_ANALOG	I	IR	14201	0	100	Cooler regulation analog output, %.
REG_OUTPUT_Y3_DIGITAL	I	IR	14202	0	1	Cooler digital output state: 0: Output inactive 1: Output active
REG_OUTPUT_Y3_CIRC_PUMP	I	IR	14302	0	1	Cooler circulation pump digital output state: 0: Off 1: On

Time settings

Name	Signal type	Modbus register type	Modbus register number	Min value	Max value	Description
REG_TIME_YEAR	I	HR	6001	0	2999	Current year.
REG_TIME_MONTH	I	HR	6002	1	12	Current month.
REG_TIME_DAY	I	HR	6003	1	31	Current day.
REG_TIME_HOUR	I	HR	6004	0	23	Current hour.
REG_TIME_MINUTE	I	HR	6005	0	59	Current minute.
REG_TIME_SECOND	I	HR	6006	0	59	Current seconds.
REG_TIME_AUTO_SUM_WIN	I	HR	6007	0	1	Daylight saving status: 0: Disabled 1: Enabled
REG_HOUR_FORMAT	I	HR	6008	0	1	Hour format 0: 24H 1: 12H
REG_DAY_OF_THE_WEEK	I	IR	6009	0	6	Day of the week: 0: Monday 1: Tuesday 2: Wednesday 3: Thursday 4: Friday 5: Saturday 6: Sunday

Filter

Name	Signal type	Modbus register type	Modbus register number	Min value	Max value	Description
REG_FILTER_PERIOD	I	HR	7001	3	15	Filter replacement time in months. Insert a new value to re-start filter remaining time.
REG_FILTER_REPLACEMENT_TIME_L	I	IR	7002	0	65536	Timestamp of latest filter replacement, lower 16 bits.
REG_FILTER_REPLACEMENT_TIME_H	I	IR	7003	0	65536	Timestamp of latest filter replacement, higher 16 bits.
REG_FILTER_REMAINING_TIME_L	I	IR	7005	0	65536	Remaining filter time in seconds, lower 16 bits.
REG_FILTER_REMAINING_TIME_H	I	IR	7006	0	65536	Remaining filter time in seconds, higher 16 bits.

Note:

Filter replacement time seconds = $(65536 * \text{REG_FILTER_REPLACEMENT_TIME_H}) + \text{REG_FILTER_REPLACEMENT_TIME_L}$

Constant = 760516096

Days from 1970-01-01 = $(\text{Filter replacement time seconds} - \text{Constant}) / 86400$

Filter replacement date (GMT+0) = 1970-01-01 + Days from 1970-01-01

Example:

$\text{REG_FILTER_REPLACEMENT_TIME_L} = 28296$

$\text{REG_FILTER_REPLACEMENT_TIME_H} = 37819$

Filter replacement time seconds = $(65536 * 37819) + 28296 = 2478534280$

Days from 1970-01-01 = $(2478534280 - 760516096) / 86400 = 19884,47$

Filter replacement date (GMT+0) = 1970-01-01 + 19884,47 = 2024-06-10 11:16:24

Note:

Remaining filter time = $(65535 * \text{REG_FILTER_REMAINING_TIME_H}) + \text{REG_FILTER_REMAINING_TIME_L}$

Example:

$\text{REG_FILTER_REMAINING_TIME_L} = 39888$

$\text{REG_FILTER_REMAINING_TIME_H} = 474$

Remaining filter time = $(65535 * 474) + 39888 = 31103952$ seconds

Alarms

Name	Signal type	Modbus register type	Modbus register number	Min value	Max value	Description
REG_ALARM_TYPE_A	I	IR	15901	0	1	Indicates if an alarm Type A is active: 0: No active Type A alarm 1: Active Type A alarm Frost protection; Frost protection temperature sensor; Defrosting error; Supply air fan feedback; Extract air fan feedback; Supply air fan control error; Extract air fan control error; Fire alarm; Low supply air temperature alarm.
REG_ALARM_TYPE_B	I	IR	15902	0	1	Indicates if an alarm Type B is active: 0: No active alarm 1: Active alarm Emergency thermostat; Bypass damper; Rotor guard; Outdoor air temperature sensor; Overheat temperature sensor; Supply air temperature sensor; Room air temperature sensor; Extract air temperature sensor; Extra controller temperature sensor; Efficiency temperature sensor; In-built relative humidity sensor; In-built extract air temperature sensor; Extra controller alarm; Bypass damper feedback.
REG_ALARM_TYPE_C	I	IR	15903	0	1	Indicates if an alarm Type C is active: 0: No active alarm 1: Active alarm Filter; External stop; Heater overheat; External CO ₂ sensor; External relative humidity sensor; Filter warning.
REG_ALARM_CLEAR_ALL	I	HR	15905	0	1	Clears all active alarms: 1: Clear all active alarms
REG_ALARM_MODBUS_SUM	I	IR	15907	0	2	Any alarm indication: 0: Not supported 1: No active alarms 2: Active alarm

Indoor air quality

Name	Signal type	Modbus register type	Modbus register number	Min value	Max value	Description
REG_IAQ_LEVEL	I	HR	1123	0	2	Indoor air quality level: 0: Perfect 1: Good 2: Improving



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