Airling® – Digital BMS Parameters for KNX®

Manual



BASIC INFORMATION

The present document is only valid for air handling units with firmware version 6.1 or newer. The firmware version is specified at index 27. KNX integration project file is available at Airmaster's website.

BASIC CONTROL SETTINGS

| Index | BMS Name | BMS Description | Access | Unit | Min | Max | Default | Resolution | Comments |
|-------|---|---|--------|------|-----|------|---------|------------|-----------------|
| 1 | Control - Automatic Operation: Start | Activate Automatic Operation at this input. | [R/W] | | 0 | 1 | 0 | 1 | 0 = No / Stop |
| | | This parameter is typically used to start/stop the air handling unit from the BMS. | | | | | | | 1 = Yes / Start |
| | | N.B.: Index 38-42. | | | | | | | |
| 2 | Control - Automatic Operation: Flow setpoint | Setpoint for desired airflow in case the unit is started by the BMS (index 1). | [R/W] | % | 0 | 100 | 0 | 1 | |
| | | If running by $\rm CO_2$ sensor, set the basic flow level here, e.g. 40%. | | | | | | | |
| 3 | Control - Automatic Operaion: IT setpoint | Setpoint for desired inlet temperature in case the unit is started by the BMS (index 1). | [R/W] | °C | 8 | 40 | 19 | 0,1 | |
| | | Please consult the maunal for recommendations. | | | | | | | |
| 4 | Control - Automatic Operation: CO2 input | 1) Leave this input at 0 ppm to allow the unit to run by CO_2 sensor(s) connected directly to the unit. | [R/W] | PPM | -1 | 5000 | 0 | 1 | |
| | | 2) Set this input to -1 ppm to prevent the unit from running by CO_2 sensor(s) connected directly to the unit. | | | | | | | |
| | | 3) In case the BMS system has a CO_2 sensor, connect it to this input. Any ppm value greater than 0 ppm will | | | | | | | |
| | | disable any CO ₂ sensor connected directly to the unit. | | | | | | | |
| | | N.B.: CO ₂ limits can be adjusted: CO ₂ minimum and maximum (index 46 and 47). | | | | | | | |
| | | For further information please consult the manual. | | | | | | | |
| 5 | Control - Night Cooling: Start | Activate this input to request night cooling. | [R/W] | | 0 | 1 | 0 | 1 | 0 = No |
| | | Night cooling will only run when setpoint temperatures are exceeded during the day. The limits are adjustable | | | | | | | 1 = Yes |
| | | via Night Cooling: high and low limit (index 48 and 49). | | | | | | | |
| | | For further information please consult the manual. | | | | | | | |
| 6 | Control - Holiday Mode Operation: Start | Activate holiday mode operation at this input. | [R/W] | | 0 | 1 | 0 | 1 | 0 = No |
| | | | | | | | | | 1 = Yes |
| 38 | Control Basic - Allow Start by Local PIR | PIR sensor is optional. | [R/W] | | 0 | 1 | 1 | 1 | 0 = No |
| | | In case the unit has a PIR sensor connected directly, is it allowed to start by it, or shall it only pass on the signal | | | | | | | 1 = Yes |
| | | to the BMS system. When the unit is started by a local PIR sensor, index 62 and 63 are used as setpoints for | | | | | | | |
| | | airflow and inlet temperature. | | | | | | | |
| 39 | Control Basic - Allow Start by Local CO2 | CO ₂ sensor is optional. | [R/W] | | 0 | 1 | 1 | 1 | 0 = No |
| | | In case the unit has a CO_2 sensor connected directly, is it allowed to start by it, or shall it only pass on the signal | | | | | | | 1 = Yes |
| | | to the BMS system. When the unit is started by a local CO_2 sensor, index 62 and 63 are used as setpoints for | | | | | | | |
| | | airflow and inlet temperature. | | | | | | | |
| 40 | Control Basic - Allow Start by Local Timer | Is the unit allowed to start by the build in timer. The timer settings are not available via BMS, only the | [R/W] | | 0 | 1 | 0 | 1 | 0 = No |
| | | possibility to enable/disable the timer are available to BMS. | | | | | | | 1 = Yes |
| 41 | Control Basic - Allow Start by Local Panel | Control panel is optional. | [R/W] | | 0 | 1 | 1 | 1 | 0 = No |
| | | In case the unit has a local control panel connected, is it allowed to start by it. When the unit is started by a | | | | | | | 1 = Yes |
| | | local control panel, index 62 and 63 are used as setpoints for airflow and inlet temperature. | | | | | | | |
| 42 | Control Basic - Allow Start by Local External Start | In case the unit has an External Start Signal connected directly, is it allowed to start by it, or shall it only pass | [R/W] | | 0 | 1 | 1 | 1 | 0 = No |
| | | on the signal to the BMS system. When the unit is started by a local external start signal, index 62 and 63 are $$ | | | | | | | 1 = Yes |
| | | used as setpoints for airflow and inlet temperature. | | | | | | | |

ADVANCED CONTROL SETTINGS

| Index | BMS Name | BMS Description | Access | Unit | Min | Max | Default | Resolution | Comments |
|-------|---|--|--------|------|--------|-------|---------|------------|--|
| 62 | Optional Setting - Default Airflow | Setpoint for desired airflow in case the unit is started by a local PIR, CO ₂ , control panel or local external start | [R/W] | % | 0 | 100 | 80 | 1 | The default value is 0 % if the air handling unit is supplied with a $\mathrm{CO_2}$ |
| | | (index 38, 39, 41, 42). | | | | | | | sensor. |
| 63 | Optional Setting - Default Temperature | Setpoint for desired inlet temperature in case the unit is started by a local PIR, CO ₂ , control panel or local | [R/W] | °C | 8 | 30 | 19 | 1 | |
| | | external start (index 38, 39, 41, 42). | | | | | | | |
| | | Please consult the maunal for recommendations. | | | | | | | |
| 45 | Optional Setting - PIR Afterrun Time | Setpoint for the PIR afterrun time, local connected PIR only. | [R/W] | min | 0 | 1080 | 30 | 1 | The default value is 5 min if the air handling unit is supplied with a CO_2 |
| | | | | | | | | | sensor. |
| 46 | Optional Setting - CO2, Minimum | Setpoint for minimum CO ₂ limit, when overriding flow by a CO ₂ sensor. | [R/W] | PPM | 400 | 5000 | 500 | 50 | |
| | | Consult the manual for further information on CO_2 control. | | | | | | | |
| 47 | Optional Setting - CO2, Maximum | Setpoint for maximum CO ₂ limit, when overriding flow by a CO ₂ sensor. | [R/W] | PPM | 400 | 5000 | 900 | 50 | |
| | | Consult the manual for further information on CO ₂ control. | | | | | | | |
| 43 | Optional Setting - High Room Temperature, High limit | Setpoint for the limit that causes the unit to enter "High Room Temperature" operation mode. | [R/W] | °C | 0 | 50 | 25 | 1 | |
| | | Consult the manual for further description of the "High Room Temperature" operation mode. | | | | | | | |
| 44 | Optional Setting - High Room Temperature, Low limit | Setpoint for the limit that causes the unit to exit "High Room Temperature" operation mode. | [R/W] | °C | 0 | 50 | 24 | 1 | |
| | | Consult the manual for further description of the "High Room Temperature" operation mode. | | | | | | | |
| 48 | Optional Setting - Night Cooling: High limit | Setpoint for Night Cooling High Limit, | [R/W] | °C | 0 | 30 | 26 | 1 | |
| | | Consult the "Night Cooling" section in the manual for further description. | | | | | | | |
| 49 | Optional Setting - Night Cooling: Low limit | Setpoint for Night Cooling Low Limit, | [R/W] | °C | 0 | 30 | 23 | 1 | |
| | | Consult the "Night Cooling" section in the manual for further description. | | | | | | | |
| 50 | Optional Setting - Night Cooling: IT setpoint | Inlet Temperature setpoint when running in Night Cooling mode, started from BMS (index 5). | [R/W] | °C | 0 | 30 | 16 | 1 | |
| | | | | | | | | | |
| 51 | Optional Setting - Night Cooling: Flow setpoint | Air flow setpoint when running in Night Cooling mode, started from BMS (index 5). | [R/W] | % | 0 | 100 | 100 | 1 | |
| | | | | | | | | | |
| 55 | Optional Setting - Absolute humidity Min. C Coefficient | Coefficient for absolute humidty calculation. | [R/W] | | -99,99 | 99,99 | 0 | 0,01 | The default value is 3,6 if the air handling unit is supplied with |
| | | | | | | | | | electronic humidity sensors. |
| 58 | Optional Setting - Absolute humidity Max. C Coefficient | Coefficient for absolute humidty calculation. | [R/W] | | -99,99 | 99,99 | 0 | 0,01 | The default value is 6,1 if the air handling unit is supplied with |
| | | | | | | | | | electronic humidity sensors. |
| 52 | Optional Setting - Reboot | Activate this input to reboot the controller by setting the value to 1. | [R/W] | | 0 | 1 | 0 | 1 | 0 = No |
| | | The value will automatically return to 0. | | | | | | | 1 = Yes |

SENSOR SIGNALS

| Index | BMS Name | BMS Description | Access | Unit | Min | Max | Default F | Resolution | Comments |
|-------|--|---|--------|------|-----|------------|-----------|------------|----------|
| 11 | Sensor - CO2 output | CO ₂ sensor is optional. The CO ₂ concentration from a CO ₂ sensor connected directly to the unit. | [R] | PPM | 0 | 5000 | 0 | 1 | |
| | , | N.B.: Automatic Operation: CO2 input (Index 4). | | | | | | | |
| | | N.B.: Allow Start by Local CO2 (index 39). | | | | | | | |
| 12 | Sensor - PIR output | Motion sensor (PIR) is optional. The PIR signal includes the afterrun time (index 45). | [R] | | 0 | 1 | 0 | 1 | 0 = Off |
| | | In case a PIR signal without afterrun time is preferred, set the afterrun time to 0. | | | | | | | 1 = On |
| | | N.B.: Allow Start by Local PIR (index 38). | | | | | | | |
| 13 | Sensor - External Start output | Indicates if the hardware input "External Start" is activated or not. | [R] | | 0 | 1 | 0 | 1 | 0 = Off |
| | | N.B.: Allow Start by Local External Start (index 42). | | | | | | | 1 = On |
| 14 | Sensor - Room Temperature | Room temperature, measured in the extraction air. | [R] | °C | -49 | 100 | 0 | 0,1 | |
| 15 | Sensor - Inlet Temperature | Inlet Temperature, measured at the inlet opening. | [R] | °C | -49 | 100 | 0 | 0,1 | |
| 20 | Sensor - Outside Temperature at Ventilation Unit | Outside Temperature, measured at the air handling unit. | [R] | °C | -49 | 100 | 0 | 0,1 | |
| 21 | Sensor - Exhaust Temperature at Ventilation Unit | Exhaust temperature, measured at the air handling unit, near the heat exchanger. | [R] | °C | -49 | 100 | 0 | 0,1 | |
| 16 | Sensor - Outside Temperature | Cooling module is optional. Outside temperature, measured at the cooling module. | [R] | °C | -49 | 100 | 0 | 0,1 | |
| | | Used for both ON/OFF and inverter controlled cooling modules. | | | | | | | |
| 18 | Sensor - Condenser Temperature | ON/OFF controlled cooling module is optional. | [R] | °C | -49 | 100 | 0 | 0,1 | |
| | | Condenser Temperature. The Condenser is a part of the cooling module. | | | | | | | |
| 19 | Sensor - Evaporator Temperature | ON/OFF controlled cooling module is optional. | [R] | °C | -49 | 100 | 0 | 0,1 | |
| | | $\label{prop:continuous} \mbox{Evaporator Temperature. The Evaporator is a part of $$ the cooling module.}$ | | | | | | | |
| 76 | Sensor - Evaporator In Temperature | Inverter controlled cooling module is optional. | [R] | °C | -49 | 100 | 0 | 0,1 | |
| | | Evaporator temperature, inlet. The evaporator is a part of the comfort cooling unit. | | | | | | | |
| 77 | Sensor - Evaporator Out Temperature | Inverter controlled cooling module is optional. | [R] | °C | -49 | 100 | 0 | 0,1 | |
| | | $\label{prop:continuous} Evaporator\ temperature, outlet.\ The\ evaporator\ is\ a\ part\ of\ the\ comfort\ cooling\ unit.$ | | | | | | | |
| 78 | Sensor - Hotgas Temperature | Inverter controlled cooling module is optional. | [R] | °C | -49 | 100 | 0 | 0,1 | |
| 22 | Sensor - Relative Humidity, outside | Humidity sensor is optional: | [R] | % | 0 | 100 | 0 | 1 | |
| | | Humidity measured in the supply air. | | | | | | | |
| 23 | Sensor - Relative Humidity, inside | Humidity sensor is optional: | [R] | % | 0 | 100 | 0 | 1 | |
| | | Humidity measured in the extraction air. | | | | | | | |
| 33 | SysInfo - Supply Flow | Flow measurement is optional. | [R] | m³/h | 0 | 10000 | 0 | 1 | |
| | | Measured supply airflow. | | | | | | | |
| 34 | SysInfo - Extraction Flow | Flow measurement is optional. | [R] | m³/h | 0 | 10000 | 0 | 1 | |
| | | Measured extraction airflow. | | | | | | | |
| 37 | SysInfo - Airhandling Unit Energy Meter | Energy meter is optional. | [R] | Wh | 0 | 4294967295 | 0 | 1 | |
| | | The energy meter measure the energy consumption of the air handling unit. | | | | | | | |
| 73 | SysInfo - Cooling Unit Power Consumption | Energy meter and cooling module are optional. | [R] | Wh | 0 | 4294967295 | 0 | 1 | |
| | | The energy meter measure the energy consumption of the cooling module. | | | | | | | |

SYSTEM INFORMATION

| Index | BMS Name | BMS Description | Access | Unit | Min | Max | Default Re | solution | Comments |
|-------|---|--|--------|------|--------|-------|------------|---------------|--|
| 24 | SysInfo - System Operating Mode | This output indicates the system operating mode for the air handling unit. | [R] | Onit | 0 | 255 | Derault R | Solution 1 | 0 = Stopped |
| 24 | SysInfo - System Operating Mode | This output moleates the system operating mode for the air handling unit. | [K] | | U | 233 | U | 1 | |
| | | | | | | | | | 1 = Starting |
| | | | | | | | | | 2 = Auto / Running |
| | | | | | | | | | 3 = Stopping |
| | | | | | | | | | 4 = Filter Test Running |
| | | | | | | | | | 5 = Filter Calibration |
| | | | | | | | | | 6 = Night Cooling |
| | | | | | | | | | 7 = Holiday Mode |
| | | | | | | | | | 8 = Manual Mode |
| 35 | SysInfo - Actual Inlet Temperature setpoint | The actual inlet temperature setpoint may vary from requested value, thus the actual setpoint is available | [R] | °C | 0 | 100 | 0 | 0,1 | |
| | | here. | | | | | | | |
| 36 | SysInfo - Actual Flow Setpoint | The actual air flow set point may vary from requested value, thus the actual set point is available here, e.g. due actual set point is available here, e.g. due actual set point is available here, e.g. due actual actual set point is available here, e.g. due actual actu | [R] | % | 0 | 100 | 0 | 1 | |
| | | to CO₂ override. | | | | | | | |
| 30 | SysInfo - Pre Heater percent | Preheaing suface is optional. | [R] | % | 0 | 100 | 0 | 1 | |
| | | Percentage heat output relative to maximum. | | | | | | | |
| 28 | SysInfo - Comfort Heater percent | Comfort heaing surface is optional. | [R] | % | 0 | 100 | 0 | 1 | |
| | | Percentage heat output relative to maximum. | | | | | | | |
| 29 | SysInfo - Comfort Cooling percent | Comfort cooling module is optional. | [R] | % | 0 | 100 | 0 | 1 | |
| | | Percentage cooling output relative to maximum. | | | | | | | |
| 32 | SysInfo - Bypass Damper percent | Bypass damper is optional. | [R] | % | 0 | 100 | 0 | 1 | 0 = full heat recovery |
| | | Percentage bypass position relative to maximum. | | | | | | | |
| 25 | SysInfo - System Operating Mode | This output indicates the system condition for the air handling unit. | [R] | | -32768 | 32767 | 0 | 1 | N.B.: Convert to binary representation |
| | | | | | | | | | Bit 0 = [Low Temp Process Inactive Active] |
| | | | | | | | | | Bit 1 = [High Temp Process Inactive Active] |
| | | | | | | | | | Bit 2 = [Condensation Process Inactive Active] |
| | | | | | | | | | Bit 3 = [Non Critical Hardware Fault False True] |
| | | | | | | | | | Bit 4 = [Condenser Overheated False True] |
| | | | | | | | | | Bit 5 = [Compressor Locked False True] |
| | | | | | | | | | Bit 6 = [Filter Change Needed False True] |
| | | | | | | | | | Bit 7 = [High Room Temp False True] |
| | | | | | | | | | Bit 8 = [Abnormal Filter Test Calibration Result False True] |
| | | | | | | | | | Bit 9 = [Manual Override Active False True] |
| | | | | | | | | | Bit 10 = [Comfort Cool Defrost Warning False True] |
| | | | | | | | | | Bit 11 = [Comfort Cool Condensation Warning False True] |
| | | | | | | | | | Bit 12 = [Boost Mode Active False True] |
| | | | | | | | | | Bit 13 = [Comfort Cool Hotgas Warning False True] |
| | | | | | | | | | Bit 14 = [Comfort Cool Pressure Warning False True] |
| | | | | | | | | | Bit 15 = [Group Master Not Available Warning False True] |
| 26 | SysInfo - System Condition | This output indicates system alarms for the air handling unit. | [R] | | -32768 | 32767 | 0 | 1 | N.B.: Convert to binary representation |
| | | | | | | | | | Bit 0 = [Low Temp Alarm False True] |
| | | | | | | | | | Bit 1 = [Condensation Alarm False True] |
| | | | | | | | | | Bit 2 = [Filter Alarm False True] |
| | | | | | | | | | Bit 3 = [Critical Hardware Fault False True] |

SYSTEM INFORMATION

| Index | BMS Name | BMS Description | Access | Unit | Min Max | Default Resolution | Comments |
|-------|----------------------------|--|--------|------|--------------|--------------------|---|
| 72 | SysInfo - Hardware errors | This output indicates the hardware status of the the air handling unit and cooling module. | [R] | | 0 4294967295 | 0 | N.B.: Convert to binary representation |
| | | | | | | | Bit 0 = [Room Temperaturesensor OK Fault] |
| | | | | | | | Bit 1 = [Inlet Temperaturesensor OK Fault] |
| | | | | | | | Bit 2 = [Outside Temperaturesensor OK Fault] |
| | | | | | | | Bit 3 = [General Purpose Temperaturesensor OK Fault] |
| | | | | | | | Bit 4 = [Condenser Temperaturesensor OK Fault] |
| | | | | | | | Bit 5 = [Evaporator Temperaturesensor OK Fault] |
| | | | | | | | Bit 6 = [Exhaust Temperaturesensor Ventilation Unit OK Fault] |
| ĺ | | | | | | | Bit 7 = [Outside Temperaturesensor Ventilation Unit OK Fault] |
| | | | | | | | Bit 8 = [Supplyflow Sensor 1 OK Fault] |
| | | | | | | | Bit 9 = [Supplyflow Sensor 2 OK Fault] |
| | | | | | | | Bit 10 = [Extractionflow Sensor OK Fault] |
| | | | | | | | Bit 11 = [CO2 Sensor OK Fault] |
| | | | | | | | Bit 12 = [Supply Fan OK Fault] |
| | | | | | | | Bit 13 = [Extraction Fan OK Fault] |
| | | | | | | | Bit 14 = [Evaporator In Temperaturesensor OK Fault] |
| ĺ | | | | | | | Bit 15 = [Evaporator Out Temperaturesensor OK Fault] |
| | | | | | | | Bit 16 = [Hotgas Temperaturesensor OK Fault] |
| | | | | | | | Bit 17 = [Comfort Cooling Connection Lost OK Fault] |
| | | | | | | | Bit 18 = [Comfort Cooling Stepdriver OK Fault] |
| | | | | | | | Bit 19 = [Comfort Cooling Frequency Inverter OK Fault] |
| | | | | | | | Bit 20 = [Humidity Supply Air Sensor OK Fault] |
| | | | | | | | Bit 21 = [Humidity Extraction Air Sensor OK Fault] |
| | | | | | | | Bit 22 = [Humidity Sensor Settings OK Fault] |
| 27 | SysInfo - Software Version | Software version installed in the air handling unit. | [R] | | 0 32 | 6 0,001 | |
| | | - | | | | | |

LOCAL CONTROL PANEL

| Index | BMS Name | BMS Description | Access | Unit | Min | Max | Default | Resolution | Comments |
|-------|---|---|--------|---------|-----|-----|---------|------------|--------------------------|
| 74 | SysInfo - Panel Flow Request | Local control panel is optional. | [R] | % | 0 | 100 | 0 | 1 | 0 = no request from user |
| | | Flow percent requested by the user via a local control panel. | | | | | | | |
| | | N.B.: Panel Flow Function (index 59). | | | | | | | |
| 59 | Control Basic - Panel Flow Function | $This value \ defines \ how \ the \ air \ handling \ unit \ respond \ to \ a \ change \ of \ the \ air flow \ setpoint \ by \ the \ user \ via \ a \ local$ | [R/W] | | 0 | 2 | 1 | 1 | 0 = Direct |
| | | control panel. | | | | | | | 1 = None |
| | | "Direct": The airflow setpoint can temporarily be overridden from a local control panel. | | | | | | | 2 = D-BMS |
| | | "None": The airflow setpoint can not be overridden from a local control panel. | | | | | | | |
| | | "D-BMS": A change of the airflow setpoint from a local control panel will be shown at index 74, but will not | | | | | | | |
| | | affect the actual flow setpoint directly. | | | | | | | |
| | | N.B.: Manual Override Time (index 64). | | | | | | | |
| 64 | Optional Setting - Manual Override Time | This value defines for how long time an override of the airflow setpoint from a local control panel will be stored | [R/W] | hour(s) | 0 | 18 | 12 | 1 | |
| | | in the controller. | | | | | | | |

SERVICE AND FILTER INFORMATION

| BMS Name | BMS Description | Access | Unit | Min | Max | Default | Resolution | Comments |
|---|--|--|---|---|--|--|--|---|
| SysInfo - Filter, remaining service life [days] | Estimated remaining service life of the filters in days calculated by the average daily operating hours since last | [R] | days | 0 | 1000 | 0 | 1 | |
| | service. | | | | | | | |
| SysInfo - Remaining Service Life [Hours] | Remaining service life of filters in operating hours. | [R] | hour(s) | 0 | 65535 | 0 | 1 | |
| | | | | | | | | |
| SysInfo - Remaining Service Life [%] | Estimated remaining service life of filters in %. | [R] | % | 0 | 101 | 0 | 1 | 0 = filter change required |
| | | | | | | | | 100 = clean filters |
| Control Basic - Reset Filter Status | The filter monitoring must be reset after a filter change. Set the value to 1 to reset filter status. | [R/W] | | 0 | 1 | 0 | 1 | 0 = No |
| | The value will automatically return to 0 when filter status has been reset. | | | | | | | 1 = Yes |
| Optional Setting - Filter Test Mode | This parameter defines the filter test mode. | [R/W] | | 0 | 3 | 3 | 1 | 0 = Off |
| | "Timer": Filter monitoring using an hour counter. | | | | | | | 1 = Timer (default for air handling units with AQC-L) |
| | "Tacho": Electronic flow monitoring. | | | | | | | 2 = Tacho |
| | "Timer and tacho": Filter monitoring using an hour counter and electronic flow monitoring. | | | | | | | 3 = Timer And Tacho (default for air handling units with AQC-P) |
| Optional Setting - Life Span Warning | This value defines the operating hours before activating a filter warning at index 25. | [R/W] | hour(s) | 0 | 8760 | 1500 | 1 | The default value is 4000 h for CV and DV product series. |
| | | | | | | | | |
| Optional Setting - Life Span Alarm | This value defines the operating hours before activating a filter alarm at index 26. | [R/W] | hour(s) | 0 | 8760 | 2000 | 1 | The default value is 5000 h for CV and DV product series. |
| | | | | | | | | |
| Optional Setting - Filter Max Life Time | This value defines the maximum filter life time and for how many months the air handling unit can operate | [R/W] | month(s) | 0 | 48 | 14 | 1 | |
| | after a service reset before activating a filter alarm (index 26). | | | | | | | |
| | The max life time alarm can be disabled by setting the value to 0. | | | | | | | |
| Optional Setting - Filter Warning Period | This value defines the period for a filter warning at index 25 before the filter alarm activates. | [R/W] | month(s) | 0 | 12 | 2 | 1 | |
| | By using the default value of this parameter the filter warning at index 25 is activated 2 months before the | | | | | | | |
| | maximum filter life time expires (index 68). | | | | | | | |
| Control Basic - Run Filter Calibration | Set the value to 1 to run a filter calibration. The value will automatically return to 0 when the calibration | [R/W] | | 0 | 1 | 0 | 1 | 0 = No |
| | process has finished. | | | | | | | 1 = Yes |
| | N.B.: Do only run a filter calibration with clean filters. | | | | | | | |
| | N.B.: Do only run a filter calibration at the first start of an air handling unit with AQC-P control box by non | | | | | | | |
| | $standard\ installation\ e.g.\ on\ reduction\ of\ the\ duct\ size, when\ using\ more\ than\ 1\ m\ of\ duct\ or\ when\ installing$ | | | | | | | |
| | with elbows. | | | | | | | |
| | $N.B.: A new \ filter \ calibration \ shall \ be \ performed \ if \ the \ filter \ class \ is \ changed \ (from \ M5 \ to \ F7 \ etc.) \ during \ a \ service$ | | | | | | | |
| | routine of the air handling unit with AQC-P control box. | | | | | | | |
| | SysInfo - Filter, remaining service life [days] SysInfo - Remaining Service Life [Hours] SysInfo - Remaining Service Life [%] Control Basic - Reset Filter Status Optional Setting - Filter Test Mode Optional Setting - Life Span Warning Optional Setting - Life Span Alarm Optional Setting - Filter Max Life Time Optional Setting - Filter Warning Period | Sysinfo - Filter, remaining service life [days] Estimated remaining service life of the filters in days calculated by the average daily operating hours since last service. Sysinfo - Remaining Service Life [Hours] Remaining service life of filters in operating hours. Sysinfo - Remaining Service Life [96] Estimated remaining service life of filters in 96. Control Basic - Reset Filter Status The filter monitoring must be reset after a filter change. Set the value to 1 to reset filter status. The value will automatically return to 0 when filter status has been reset. Optional Setting - Filter Test Mode This parameter defines the filter test mode. "Timer": Filter monitoring using an hour counter. "Tacho": Electronic flow monitoring. "Timer and tachos": Filter monitoring using an hour counter and electronic flow monitoring. Optional Setting - Life Span Warning This value defines the operating hours before activating a filter warning at index 25. Optional Setting - Filter Max Life Time This value defines the maximum filter life time and for how many months the air handling unit can operate after a service reset before activating a filter alarm at index 26. Optional Setting - Filter Warning Period This value defines the maximum filter life time and for how many months the air handling unit can operate after a service reset before activating a filter alarm (index 26). The max life time alarm can be disabled by setting the value to 0. Optional Setting - Filter Warning Period This value defines the period for a filter warning at index 25 before the filter alarm activates. By using the default value of this parameter the filter warning at index 25 is activated 2 months before the maximum filter life time expires (index 69). Control Basic - Run Filter Calibration Set the value to 1 to run a filter calibration. The value will automatically return to 0 when the calibration process has finished. NB: Do only run a filter calibration at the first start of an air handling unit with AQC-P control box by non | Sysinfo - Filter, remaining service life [days] Sysinfo - Remaining Service Life [Hours] Remaining service life of filters in operating hours. [R] Sysinfo - Remaining Service Life [Hours] Remaining service life of filters in operating hours. [R] Sysinfo - Remaining Service Life [96] Estimated remaining service life of filters in %. [R] Control Basic - Reset Filter Status The filter monitoring must be reset after a filter change. Set the value to 1 to reset filter status. [R/W] The value will automatically return to 0 when filter status has been reset. [R/W] Optional Setting - Filter Test Mode This parameter defines the filter test mode. "Tacho": Electronic flow monitoring. Timer and tacho": Filter monitoring using an hour counter. "Tacho": Electronic flow monitoring. Optional Setting - Life Span Alarm This value defines the operating hours before activating a filter warning at index 25. [R/W] Optional Setting - Filter Max Life Time This value defines the maximum filter life time and for how many months the air handling unit can operate after a service reset before activating a filter alarm (index 26). The max life time alarm can be disabled by setting the value to 0. Optional Setting - Filter Warning Period This value defines the period for a filter warning at index 25 before the filter alarm activates. By using the default value of this parameter the filter warning at index 25 is activated 2 months before the maximum filter life time expires (index 68). Control Basic - Run Filter Calibration Set the value to 1 to run a filter calibration. The value will automatically return to 0 when the calibration process has finished. N.B.: Do only run a filter calibration at the first start of an air handling unit with AQC-P control box by non standard installation e.g. on reduction of the duct size, when using more than 1 m of duct or when installing with elbows. N.B.: A new filter calibration shall be performed if the filter class is changed (from M5 to F7 etc.) during a service | SysInfo - Filter, remaining service life (days) SysInfo - Remaining Service Life (Hours) Remaining service life of filters in operating hours. [R] days service. SysInfo - Remaining Service Life (Hours) Remaining service life of filters in operating hours. [R] hour(s) SysInfo - Remaining Service Life (Hours) SysInfo - Remaining Service Life (9%) Estimated remaining service life of filters in 9%. [R] % Control Basic - Reset Filter Status The filter monitoring must be reset after a filter change. Set the value to 1 to reset filter status. The value will automatically return to 0 when filter status has been reset. [R/W] Optional Setting - Filter Test Mode This parameter defines the filter test mode. "Timer's Filter monitoring using an hour counter. "Tach's Electronic flow monitoring. "Timer and tacho's Filter monitoring using an hour counter and electronic flow monitoring. Optional Setting - Life Span Warning This value defines the operating hours before activating a filter warning at index 25. [R/W] hour(s) Optional Setting - Filter Max Life Time This value defines the maximum filter life time and for how many months the air handling unit can operate after a service reset before activating a filter alarm (index 26). The max life time alarm can be disabled by setting the value to 0. Optional Setting - Filter Warning Period This value defines the period for a filter warning at index 25 before the filter alarm activates. By using the default value to 4 this parameter the filter warning at index 25 is activated 2 months before the maximum filter life time expires (index 68). Set the value to 1 to run a filter calibration. The value will automatically return to 0 when the calibration process has finished. N.B.: Do only run a filter calibration at the first start of an air handling unit with AQC-P control box by non standard installation e.g. on reduction of the duct size, when using more than 1 m of duct or when installing with elbovs. N.B.: A new filter calibration shall be performed if | SysInfo - Filter, remaining service life (days) SysInfo - Remaining Service Life (Hours) Remaining service life of filters in operating hours. [R] days 0 SysInfo - Remaining Service Life (Hours) Remaining service life of filters in operating hours. [R] hour(s) 0 SysInfo - Remaining Service Life (9%) Estimated remaining service life of filters in 9%. [R] 9% 0 Control Basic - Reset Filter Status The filter monitoring must be reset after a filter change. Set the value to 1 to reset filter status. [R/W] 0 Optional Setting - Filter Test Mode This parameter defines the filter test mode. The system of the will automatically return to 0 when filter status has been reset. Optional Setting - Life Span Warning This value defines the operating hours before activating a filter warning at index 25. [R/W] hour(s) 0 Optional Setting - Life Span Alarm This value defines the operating hours before activating a filter warning at index 25. [R/W] hour(s) 0 Optional Setting - Life Span Alarm This value defines the operating hours before activating a filter alarm at index 26. [R/W] hour(s) 0 Optional Setting - Filter Max Life Time This value defines the operating hours before activating a filter alarm at index 26. [R/W] hour(s) 0 Optional Setting - Filter Max Life Time This value defines the maximum filter life time and for how many months the air handling unit can operate (R/W] month(s) 0 after a service reset before activating a filter alarm (index 25). The max life time alarm can be disabled by setting the value to 0. Optional Setting - Filter Warning Period This value defines the period for a filter warning at index 25 before the filter alarm activates. Brown of the default value of this parameter the filter warning at index 25 is activated 2 months before the maximum filter life time explices (index 68). The max life life time explices (index 68). N.B.: Do only un a filter calibration with clean filters. N.B.: Do only un a filter calibration with clean filters. N.B.: Do only un a filter cali | SysInfo - Filter, remaining service life [days] SysInfo - Remaining Service Life [Hours] Remaining service life of filters in operating hours. Remaining Service Life [Hours] Remaining service life of filters in operating hours. Remaining Service Life [Hours] Remaining service life of filters in operating hours. Remaining Service Life [Hours] Remaining Service Life [Hours] Remaining service life of filters in operating hours. Remaining Service Life [Hours] Remaini | SysInfo - Filter, remaining service life (days) SysInfo - Remaining Service Life (Hours) Remaining service life of filters in operating hours. SysInfo - Remaining Service Life (Hours) Remaining Service Life (Hours) Remaining Service Life (Hours) SysInfo - Remaining Service Life (Ho | Systinfo - Filter, remaining service life [days] Estimated remaining service life of the filters in days calculated by the average daily operating hours since last [R] days 0 1000 0 10 service. Systinfo - Remaining Service Life [Hours] Remaining service life of filters in operating hours. [R] hour(s) 0 65535 0 1 Systinfo - Remaining Service Life [Hours] Remaining service life of filters in operating hours. [R] hour(s) 0 65535 0 1 Systinfo - Remaining Service Life [Hours] Remaining service life of filters in operating hours. [R] hour(s) 0 65535 0 1 Control Basic - Reset Filter Status The filter monitoring must be reset after a filter charge. Set the value to 1 to reset filter status. [R/W] 0 1 1 0 1 The value will automatically return to 0 when filter status has been reset. [R/W] 0 3 3 3 1 [R/W] 0 3 3 3 1 [R/W] 0 3 3 3 1 [R/W] 0 0 8760 1500 1500 1500 1500 1500 1500 1500 15 |



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