



HOME OF SENSOR TECHNOLOGY

Description of BACnet MS/TP interface

AGS54+ (LCD) BACnet
AKF10+ (LCD) BACnet
MWF+ (LCD) BACnet
VFG54+ (LCD) BACnet
FTA+ (LCD) BACnet
FTK+ (LCD) BACnet
LK+ CO2 2x (LCD) BACnet
LK+ CO2 3x (LCD) BACnet
LK+ VOC 2x (LCD) BACnet
LK+ VOC 3x (LCD) BACnet
LK+ CO2+VOC 2x (LCD) BACnet
LK+ CO2+VOC 3x (LCD) BACnet
LK+ CO2+VOC 4x (LCD) BACnet
DPA+ (LCD) BACnet
DPA+ Flow (LCD) BACnet
LI65+ (LCD) BACnet
LDF+ (LCD) BACnet
RDF+ (LCD RS485 BACnet
WK02+ (LCD) RS485 BACnet

Revision

Revision	Date	Description	Editor
A	05.07.2017	First issue	MP
B	20.07.2017	Different corrections	MP
C	25.07.2017	Different corrections	DF
D	03.11.2017	Min./Max. ranges added PIC and BIBB modified	MP
E	24.09.2018	Objects for light sensor (LI65+ & LDF+), additional inputs and second temperature sensor (RDF+) added (firmware 2.2 and higher).	MP
F	19.08.2021	Modifications to firmware v2.5.	MP

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1 General

This document describes the BACnet MS/TP interface for the following devices:

- AGS54+ (LCD) BACnet
- AKF10+ (LCD) BACnet
- MWF+ (LCD) BACnet
- VFG54+ (LCD) BACnet
- FTA+ (LCD) BACnet
- FTK+ (LCD) BACnet
- LK+ CO2 2x (LCD) BACnet
- LK+ CO2 3x (LCD) BACnet
- LK+ VOC 2x (LCD) BACnet
- LK+ VOC 3x (LCD) BACnet
- LK+ CO2+VOC 2x (LCD) BACnet
- LK+ CO2+VOC 3x (LCD) BACnet
- LK+ CO2+VOC 4x (LCD) BACnet
- DPA+ (LCD) BACnet
- DPA+ Flow (LCD) BACnet
- LI65+ (LCD) BACnet
- LDF+ (LCD) BACnet
- RDF+ (LCD) BACnet
- WK02+ (LCD) BACnet

Note:

Depending on the device type and configuration level not all measuring values and configuration parameters shown in this document are available. The corresponding values are defined in the data sheets of the product in question.

1.1 Hardware Installation

The device can be connected by means of a twisted-pair cable (line resistance 120 Ohm). Detailed information on the installation and mounting can be found in the product data sheet of the corresponding device and the data sheet wiring_rs485_network.pdf.

1.2 RS485 Transceiver

The maximal number of bus participants without the use of a repeater is default by the RS485 transceiver. The transceiver used in the device enables 32 devices per bus segment.

1.3 Protocol

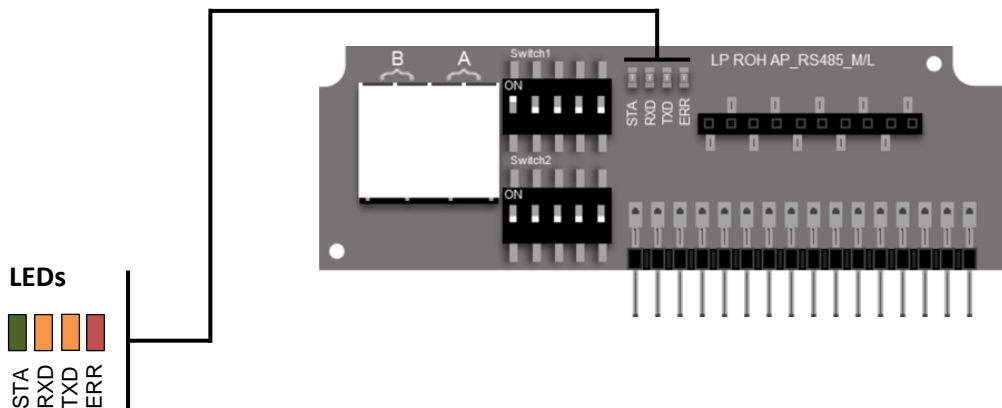
The protocol used is the internationally standardized BACnet MS / TP protocol. This allows the connection to corresponding counterparts, e.g. an automation station or a BMS that supports the BACnet MS / TP protocol. The transmission parameters are set to 8N1 (8 data bits, no parity, 1 stop bit) according to the standard. The baud rate is freely selectable (9600, 19200, 38400, 76800) and can be set via dip switch.

1.4 Configuration Options

The device can be adapted to the corresponding bus topology by means of a dip switch.

- MAC-Address of the device (1 - 127)
- Baud rate 9600, 19200, 38400 or 76800

1.5 Dip switch and LED



Via the integrated LEDs the current operating status of the BACnet interface is indicated.

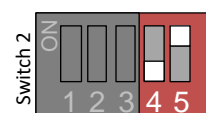
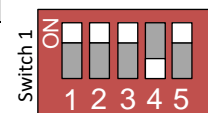
LED	Meaning
STA	Blinks during normal operation Lights up permanently during sensor initialization of device start
RXD	Blinks when RS485 BACnet telegrams are received
TXD	Blinks when RS485 BACnet telegrams are sent
ERR	Lights up in case of a corrupt bus configuration and internal errors

All settings are saved even after removal of the BACnet option conductor board.

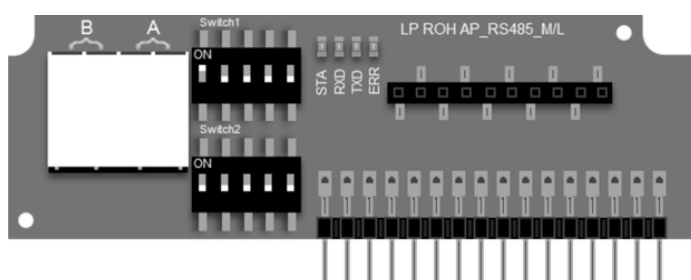
MAC Address (Switch 1 & 2)

The MAC address of the device is set via the dip switches, binary coded in the range of 1...127.
(The address 0 is reserved and cannot be selected).

Dip switch	1 Switch 1	2 Switch 1	3 Switch 1	4 Switch 1	5 Switch 1	4 Switch 2	5 Switch 2
Priority	2^0 (1)	2^1 (2)	2^2 (4)	2^3 (8)	2^4 (16)	2^5 (32)	2^6 (64)

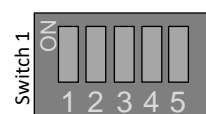


Ex.: MAC-Address 87

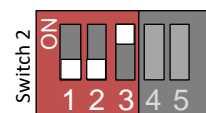


Load resistor & Baud rate

1 Switch 2	Load resistor (120 Ohm)
off	deactivated
on	activated



2 Switch 2	3 Switch 2	Baud rate
off	off	9600
on	off	19200
off	on	38400
on	on	76800

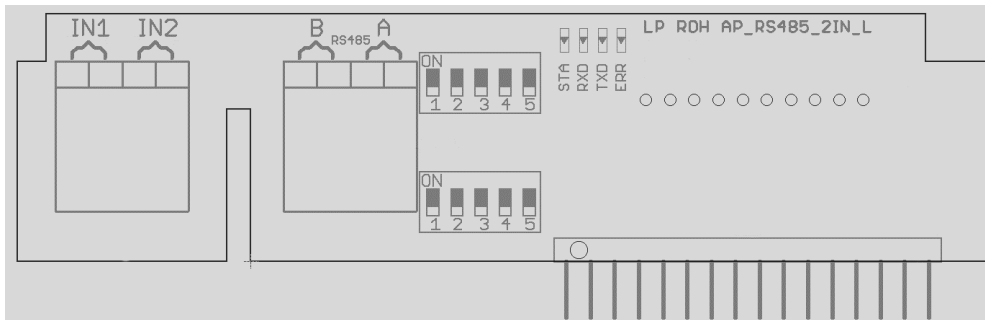


Ex.:
Termination resistor: deactivated
Baud rate: 38400

1.6 Measurement Values of additional Inputs

Some device types include an option board with two additional inputs (IN1 & IN2). NTC10k temperature sensors or potential-free switching contacts can be connected to these inputs. The measured values are provided via Analog Input 16 ... 19.

The BETA values of the connected NTC10k sensors can be configured via the Analog Values 83 and 84.



For details how to connect the external sensors and contacts, please refer to the product data sheet of the respective device.

2 Description BACnet Objects

2.1 Device Object

Property	Access	Range	Default
Object Identifier (Device ID)	R	0...4194302	Device Offset ID + MAC-Adresse
Object Name	R		DeviceID_ModelName <i>Bsp.: "123_FTA+ BACnet MSTP"</i>
Object Type	R		Device
Description	RW	Max. 32 characters	"Thermokon Sensor"
System Status	R		Operational
Vendor Name	R		Thermokon Sensortechnik GmbH
Model Name	R		<i>Example.: "FTA+ BACnet MSTP"</i>
Protocol Version	R		1
Protocol Revision	R		12
Max. APDU Length	R		480
Segmentation Support	R		no
APDU Timeout	R		3000 ms
Number APDU Retries	R		3
Max Masters	R		127
Max Info Frames	R		1

2.2 Sensor value

Via the following Analog Input Objects different measuring values can be read out.

Object	Access	Description	Remarks
AV-38	RW*	Selection of unit systems	1: SI 2: Imperial *) For the devices LI65 +, DPA +, LDF +, RDF +, this value is read-only and is instead set via the dip-switches of the motherboard.

Object	Access	Description	COV Increment	Unit
AI-1	R	Relative humidity	0 ... 100 %	%rF
AI-5	R	CO2	0 ... 5000 ppm	ppm
AI-6	R	VOC	0 ... 100 %	%
AI-7	R	CO2 VOC Mix	0 ... 100 %	
AI-18	R	Input 1 (switch contact)	1 (not changeable)	-
AI-19	R	Input 2 (switch contact)		
AI-20	R	Condensate raw value 0...4095	0...4095	
AI-21	R	Condensate relay state	1 (not changeable)	

Object AV-38 = 1 (Unit SI)

Object	Access	Description	COV Increment	Unit	
AI-0	R	Temperature 1	0 ... 250 °C	SI	°C
AI-2	R	Absolute humidity	0 ... 80 g/m³	SI	g/m³
AI-3	R	Enthalpy	0 ... 85 kJ/kg	SI	kJ/kg
AI-4	R	Dewpoint	0 ... 80 °C	SI	°C
AI-8	R	Differential pressure 1	0 ... 7000 Pa	SI	Pa
AI-9	R	Volumetric flow 1 (If the Present Value is set to 2 in object AV-41, the value scales in m³ / s)	0 ... 999.999 m³/h	SI	m³/h
			0 ... 999.999 m³/s		m³/s
AI-10	R	Differential pressure 2	0 ... 7000 Pa	SI	Pa
AI-11	R	Volumetric flow 2 (If the Present Value is set to 2 in object AV-43, the value scales in m³ / s)	0 ... 999.999 m³/h	SI	m³/h
			0 ... 999.999 m³/s		m³/s
AI-12	R	Temperature 2	0 ... 250 °C	SI	°C
AI-13	R	Illumination 1	0 ... 999.999 Lux	SI	Lux
AI-14	R	Illumination 2			
AI-15	R	Atmospheric pressure	0 ... 1.200 hPa	SI	hPa
AI-16	R	Input 1 (Temperature NTC10k)	1.0 °C	SI	°C
AI-17	R	Input 2 (Temperature NTC10k)	(not changeable)		

Object AV-38 = 2 (Unit Imperial)

Object	Access	Description	COV Increment	Unit	
AI-0	R	Temperature 1	0 ... 250 °C	Imperial	°C
AI-2	R	Absolute humidity	0 ... 80 g/m³	Imperial	g/m³
AI-3	R	Enthalpy	0 ... 85 kJ/kg	Imperial	kJ/kg
AI-4	R	Dewpoint	0 ... 80 °C	Imperial	°C
AI-8	R	Differential pressure 1	0 ... 7000 Pa	Imperial	Pa
AI-9	R	Volumetric flow 1 (If the Present Value is set to 2 in object AV-41, the value scales in m³ / s)	0 ... 999.999 m³/h	Imperial	m³/h
			0 ... 999.999 m³/s		m³/s
AI-10	R	Differential pressure 2	0 ... 7000 Pa	Imperial	Pa
AI-11	R		0 ... 999.999 m³/h	Imperial	m³/h

		Volumetric flow 2 (If the Present Value is set to 2 in object AV-43, the value scales in m ³ / s)	0 ... 999.999 m ³ /s		m ³ /s
AI-12	R	Temperature 2	0 ... 250 °C	Imperial	°C
AI-13	R	Illumination 1	0 ... 999.999 Lux	Imperial	Lux
AI-14	R	Illumination 2			
AI-15	R	Atmospheric pressure	0 ... 1.200 hPa	Imperial	hPa
AI-16	R	Input 1 (Temperature NTC10k)	1.0 °C (not changeable)	Imperial	°C
AI-17	R	Input 2 (Temperature NTC10k)			

2.3 Offset-/Correction Values

Via the following analog value objects the offset/correction values for the single measuring values can be default.

Object	Access	Description	Values
AV-1	RW	Offset relative humidity	-5 ... +5 %rF
AV-2	RW	Offset CO2	-150 ... +150 ppm
AV-3	RW	Offset VOC	-15 ... + 15 %
AV-70	RW	Correction factor Illumination 1	0.001 ... 10.0
AV-70	RW	Correction factor Illumination 1	0.001 ... 10.0

Objekt AV-38 = 1 (Einheit SI)

Object	Access	Description	Values
AV-0	RW	Offset Temperature 1	-3 ... +3 °C
AV-4	RW	Offset Differential Pressure 1	-50 ... +50 Pa
AV-5	RW	Offset Differential Pressure 2	-50 ... +50 Pa
AV-68	RW	Offset Temperature 2	-3 ... +3 °C
AV-69	RW	Offset Illumination 1	-5.000 ... +5.000 Lux
AV-70	RW	Offset Illumination 2	-5.000 ... +5.000 Lux
AV-73	RW	Offset Atmospheric Pressure	-100 ... +100 hPa

Objekt AV-38 = 2 (Einheit Imperial)

Object	Access	Description	Values
AV-0	RW	Offset Temperature 1	-6 ... +6 °F
AV-4	RW	Offset Differential Pressure 1	-0,2 ... +0,2 inWC *)
AV-5	RW	Offset Differential Pressure 2	-0,2 ... +0,2 inWC *)
AV-68	RW	Offset Temperature 2	-6 ... +6 °F
AV-69	RW	Offset Illumination 1	-500 ... +500 fc
AV-70	RW	Offset Illumination 2	-500 ... +500 fc
AV-73	RW	Offset Atmospheric Pressure	-50 ... +50 inWC

*) The values for inWC (differentiation pressure) are given in 1000ths.
For example, to set the value 0.010 inWC, 10 (1000 * 0.010 inWC) must be written.

2.4 Measuring Values Upper-/Lower Limits

Via the measuring values upper-/lower limits values in a special range can be localized. The scale concerns the measuring values and of both analogue outputs.

Object	Access	Description	Values
AV-8	RW*	Relative humidity lower limit	0 ... 100 %rF
AV-9	RW*	Relative humidity upper limit	
AV-16	RW	CO2 lower limit	0 ... 5000 ppm
AV-17	RW	CO2 upper limit	
AV-18	RW	VOC lower limit	0 ... 100 %
AV-19	RW	VOC upper limit	
AV-20	RW	CO2 VOC Mix lower limit	0 ... 100 %
AV-21	RW	CO2 VOC Mix upper limit	

Object AV-38 = 1 (Unit SI)

Object	Access	Description	Values
AV-6	RW*	Temperature 1 lower limit	-50 ... +250 °C
AV-7	RW*	Temperature 1 upper limit	
AV-10	RW*	Absolute humidity lower limit	0 ... 80 g/m ³
AV-11	RW*	Absolute humidity upper limit	
AV-12	RW*	Enthalpy lower limit	0 ... 85 kJ/kg
AV-13	RW*	Enthalpy upper limit	
AV-14	RW*	Dew point lower limit	-20 ... +80 °C
AV-15	RW*	Dew point upper limit	
AV-22	RW	Volumetric flow 1 lower limit (If the Present Value is set to 2 in object AV-41, the value scales in unit m ³ / s)	0 ... 999.999 m ³ /s 0 ... 999.999 m ³ /h
AV-23	RW	Volumetric flow 1 upper limit (If the Present Value is set to 2 in object AV-41, the value scales in m ³ / s)	
AV-24	RW	Volumetric flow 2 lower limit (If the Present Value is set to 2 in object AV-43, the value scales in m ³ / s)	
AV-25	RW	Volumetric flow 2 upper limit (If the Present Value is set to 2 in object AV-43, the value scales in m ³ / s)	
AV-74	RW	Temperature 2 lower limit	-50 ... +250 °C
AV-75	RW	Temperature 2 upper limit	
AV-76	RW	Atmospheric pressure lower limit	0 ... 1.200 hPa
AV-77	RW	Atmospheric pressure upper limit	

Object AV-38 = 2 (Unit Imperial)

Object	Access	Description	Values
AV-6	RW*	Temperature lower limit	-30 ... +480 °F
AV-7	RW*	Temperature upper limit	
AV-10	RW*	Absolute humidity lower limit	0 ... 35 gr/ft
AV-11	RW*	Absolute humidity upper limit	
AV-12	RW*	Enthalpy lower limit	0 ... 40 BTU/lb
AV-13	RW*	Enthalpy upper limit	
AV-14	RW*	Dew point lower limit	0 ... 200 °F
AV-15	RW*	Dew point upper limit	
AV-22	RW	Volumetric flow 1 lower limit (If the Present Value is set to 2 in object AV-41, the value scales in unit m ³ / s)	0 ... 999.999 cfm
AV-23	RW	Volumetric flow 1 upper limit (If the Present Value is set to 2 in object AV-41, the value scales in m ³ / s)	
AV-24	RW	Volumetric flow 2 lower limit (If the Present Value is set to 2 in object AV-43, the value scales in m ³ / s)	

AV-25	RW	Volumetric flow 2 upper limit (If the Present Value is set to 2 in object AV-43, the value scales in m ³ / s)	
AV-74	RW	Temperature lower limit	0 ... 480 inWC
AV-75	RW	Temperature upper limit	
AV-76	RW	Atmospheric pressure lower limit	
AV-77	RW	Atmospheric pressure upper limit	

*) For the devices LI65 +, DPA +, LDF +, RDF +, this value is read-only and is instead set via the dip-switches of the motherboard.

2.5 Selection of Sensor Channels

Via the following analog value objects the channel numbers of the single measuring values can be adapted afterwards, e.g to change the assignment of the analogue outputs and the indication in the display (optionally).

Object	Access	Description	Remarks
AV-26	RW	Channel number Temperature 1	<p>Selection of channel number. The channels with number 1 & 2 are output via Modbus as well as via the analogue outputs AO1 & AO2.</p> <p>Moreover, the channel numbering 3 and 4 for displaying the measuring values in the LCE has to be considered.</p> <p>Valid values: 1...4* Every channel number <u>must</u> only be assigned on time!</p> <p>Unused channels are set to 0.</p> <p>*The channels with numbers 3 and 4 can be output via VV, active 2x 0..10V optional PCB.</p>
AV-27	RW	Channel number Relative humidity	
AV-28	RW	Channel number Absolute humidity	
AV-29	RW	Channel number Enthalpy	
AV-30	RW	Channel number Dew point	
AV-31	RW	Channel number CO2	
AV-32	RW	Channel number VOC	
AV-33	RW	Channel number CO2 VOC Mix	
AV-34	RW	Channel number Differential pressure 1	
AV-35	RW	Channel number Volumetric flow 1	
AV-36	RW	Channel number Differential pressure 2 (for devices with 2 pressure sensors)	
AV-37	RW	Channel number Volumetric flow 2 (for devices with 2 pressure sensors)	
AV-78	RW	Channel number Temperature 2	
AV-79	RW	Channel number Illumination 1	
AV-80	RW	Channel number Illumination 1	
AV-81	RW	Channel number Atmospheric Pressure 1	
AV-82	RW	Channel number Condensate raw value	
AV-83	RW	Channel number Condensate relay state	

2.6 Sensor Configuration

Via the following analog value objects the requested unit system can be selected and further sensor parameters can be default.

Object	Access	Description	Remarks
AV-38	RW	Selection of unit system	1: SI 2: Imperial *) For the devices LI65 +, DPA +, LDF +, RDF +, this value is read-only and is instead set via the dip-switches of the motherboard.
AV-39	RW	Height (above sea level)	Einheit: m
AV-40	RW	k-value volumetric flow 1 Conversion factor according to the fan manufacturer's specifications, applies to the calculation of the volumetric flow in the unit m ³ / h respectively m ³ / s (Fläkt Woods).	Scaling factor: 0.1 Example: k-value 1500 = 15000 ₁₀
AV-41	RW	Selection of calculation formula (depending on fan manufacturer) volumetric flow 1	0: Rosenberg Comefri Gebhardt Nicotra $q = k * \sqrt{2 * \frac{\Delta p}{\rho}}$
			1: Ziehl-Abegg EBM-Papst $q = k * \sqrt{\Delta p}$
			2: Fläkt Woods $q = \frac{1}{k} * \sqrt{\Delta p}$
AV-42	RW	k-value volumetric flow 2 Conversion factor according to the fan manufacturer's specifications, applies to the calculation of the volumetric flow in the unit m ³ / h respectively m ³ / s (Fläkt Woods).	Scaling factor: 0.1 Example: k-value 1500 = 15000 ₁₀
AV-43	RW	Selection of calculation formula (depending on fan manufacturer) volumetric flow 2	0: Rosenberg Comefri Gebhardt Nicotra $q = k * \sqrt{2 * \frac{\Delta p}{\rho}}$
			1: Ziehl-Abegg EBM-Papst $q = k * \sqrt{\Delta p}$
			2: Fläkt Woods $q = \frac{1}{k} * \sqrt{\Delta p}$
AV-44	RW	Response time volumetric flow 1	s
AV-45	RW	Response time volumetric flow 1	s
AV-82	RW	Percentage value of the CO2 value in the CO2 VOC Mix Signal	0...100% Example.: 25% means: CO2 VOC Mix = 25% CO2 and 75% VOC
AV-83	RW	BETA-Value NTC 1	Default: 3864
AV-84	RW	BETA-Value NTC 2	Default: 3864
AV-85	RW	Zeroing differential pressure 1	0: no zeroing
AV-86	RW	Zeroing differential pressure 2	1: start zeroing

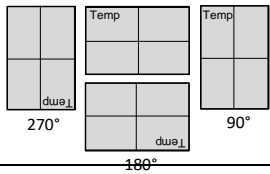
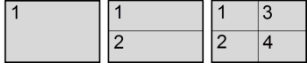
2.7 General Registers

Via the following analog value objects general device information can be read out and written.

Object	Access	Description	Remarks
AV-46	RW	Offset Device ID	Valid range: 0...4194175 Device ID = Offset Device ID + MAC Address
AV-47	RW	Unconfirmed COV	0: deactivated 1: activated
AV-48	RW	Minimal output voltage	Einheit: Volt
AV-49	R	Elapsed hour counter	Unit: hours If the countdown is expired the value must be written in the register again
AV-50	RW	Service Countdown Set a defined operating period – e.g. for rotational maintenance work	
AV-51	RW	Calibration Countdown Often sensors are used in extreme conditions. Thus, a regular calibration cycle is recommendable.	

2.8 Display configuration

Via the following analog value objects display parameters can be adapted and the measuring values can be default.

Objects	Access	Description	Remarks
AV-52	RW	„LCD“ ON/OFF	0: ON 1: OFF
AV-53	RW	„LCD“ Brightness	0...100%
AV-54	RW	„LCD“ Rotation	0: 0° 1: 90° 2: 180° 3: 270° 
AV-55	RW	„LCD“ activate traffic-light function	0: deactivated 1: activated
AV-56	RW	„LCD“ Service symbol enabled	0: disabled
AV-57	RW	„LCD“ Calibration symbol enabled	1= enabled
AV-58	RW	„LCD“ Channel 1 display/ do not display	0: do not display 1: display Corresponds to the channel assignment of the addresses 300..311 
AV-59	RW	„LCD“ Channel 2 display/do not display	
AV-60	RW	„LCD“ Channel 3 display/do not display	
AV-61	RW	„LCD“ Channel 4 display/do not display	
AV-62	RW	Channel assignment for traffic-light function	Enter the channel number of the sensor value to be linked with the TLF in this register. (1..4, to be input in the objects 26..37)
AV-63	RW	Traffic-light function Colour range 1	0: off 1: green 2: yellow 3: red 4: blue 5: magenta 6: cyan 7: white
AV-64	RW	Traffic-light function Colour range 2	
AV-65	RW	Traffic-light function Colour range 3	
AV-66	RW	Traffic-light threshold Range 1→2	Setting of thresholds for colour change of the room operating unit display illumination. Indications are made in the corresponding basis units (exception WC, here the indication is made in 1/1000). Example: Change from Blue to Green at 20 °C. Change from Green to Red at 35 °C Range 1, AV-63 = 4₁₀ Range 2, AV-64 = 1₁₀ Range 3, AV-65 = 3₁₀ Threshold AV-66 = 20₁₀ Threshold AV-67 = 35₁₀
AV-67	RW	Traffic-light threshold Range 2→3	

3 BACnet PICS

BACnet Protocol Implementation Conformance Statement

Date:	20.06.2018
Vendor Name:	Thermokon Sensortechnik GmbH (Vendor ID: 396)
Product Names:	AGS54+ (LCD) BACnet AKF10+ (LCD) BACnet MWF+ (LCD) BACnet VFG54+ (LCD) BACnet FTA+ (LCD) BACnet FTK+ (LCD) BACnet LK+ CO2 2x (LCD) BACnet LK+ CO2 3x (LCD) BACnet LK+ VOC 2x (LCD) BACnet LK+ VOC 3x (LCD) BACnet LK+ CO2+VOC 2x (LCD) BACnet LK+ CO2+VOC 3x (LCD) BACnet LK+ CO2+VOC 4x (LCD) BACnet DPA+ (LCD) BACnet DPA+ Flow (LCD) BACnet LI65+ (LCD) BACnet LDF+ (LCD) BACnet RDF+ (LCD) BACnet
Firmware Revision:	2.2
Application Software Version:	2.2
BACnet Protocol Revision:	1.12
Product Description:	Sensor device with BACnet MS/TP RS485 interface.
BACnet Standardized Device Profile:	BACnet Smart Sensor (B-SS)

4 BACnet BIBBs

Supported BIBBS	BIBB Name
DS-RP-B	Data Sharing, Read Property, B
DS-RPM-B	Data Sharing, Read Property Multiple, B
DS-WP-B	Data Sharing, Write Property, B
DS-COVU-B	Data Sharing, COV Unsubscribed, B
DM-DOB-B	Device Management, Dynamic Object Binding, B
DM-DCC-B	Device Management, Device Communication Control, B
DM-DDB-B	Device Management, Dynamic Device Binding, B

BACnet Standard Application Services Supported:

ReadProperty
 ReadPropertyMultiple
 WriteProperty
 DeviceCommunicationControl
 WhoHas
 Whols

Standard Object Types Supported:

Object-Type	Dynamically Creatable Deleteable	Optional Properties supported	Writable Properties
Analog Input	<input type="checkbox"/>	Description, COV Increment	COV Increment
Analog Value	<input type="checkbox"/>	Description	Present Value
Device	<input type="checkbox"/>	Description	Description

Data Link Layer Option:

MS/TP master. Baud rate(s): [9600, 19200, 38400, 76800]

Device Address Binding:

Is static device binding supported?

Yes

☐

No

☒

Character Sets Supported:

UTF-8

Special Functionality:

Maximum APDU size in octets: 480