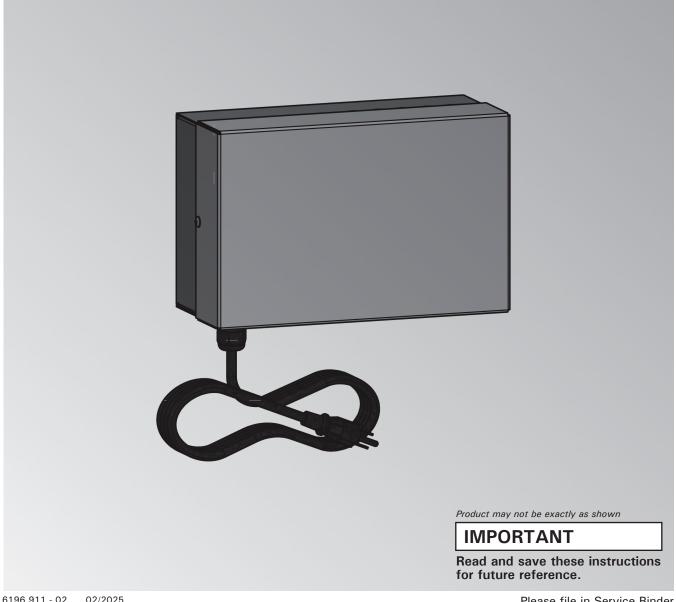
Installation and Service Instructions



for use by heating contractor

BMS communication with heating systems via BACnet WAGO BACnet/IP with MS/TP router gateway

WAGO BACnet/IP WITH MS/TP ROUTER GATEWAY



6196 911 - 02 02/2025

Safety, Installation and Warranty Requirements

Please ensure that these instructions are read and understood before commencing installation. Failure to comply with the instructions listed below and details printed in this manual can cause product/property damage, severe personal injury, and/or loss of life. Ensure all requirements below are understood and fulfilled (including detailed information found in manual subsections).

■ Product documentation

Read all applicable documentation before commencing installation. Store documentation near boiler in a readily accessible location for reference in the future by service personnel.

► For a listing of applicable literature, please see section entitled "Important Regulatory and Safety Requirements".

■ Warranty

Information contained in this and related product documentation must be read and followed. Failure to do so renders the warranty null and void.



Licensed professional heating contractor

The installation, adjustment, service and maintenance of this equipment must be performed by a licensed professional heating contractor.

► Please see section entitled Safety and "Important Regulatory and Installation Requirements".

Advice to owner

Once the installation work is complete, the heating contractor must familiarize the system operator/ ultimate owner with all equipment, as well as safety precautions/requirements, shutdown procedure, and the need for professional service annually before the heating season begins.

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	Advice to owner2
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Important Regulatory and Installation Requirements

Approvals

Viessmann boilers, burners and controls are approved for sale in North America by CSA International.

Codes

The installation of this unit shall be in accordance with local codes. In the absence of local codes, use:

- CSA C22.1 Part 1 and/or local codes in Canada
- National Electrical Code ANSI/NFPA 70 in the U.S.

Always use latest editions of codes.

The heating contractor must comply with the Standard for Controls and Safety Devices for Automatically Fired Boilers, ANSI/ASME CSD-1 where required by the authority having jurisdiction.

Working on the equipment

The installation, adjustment, service, and maintenance of this product must be done by a licensed professional heating contractor who is qualified and experienced in the installation, service, and maintenance of hot water boilers. There are no user serviceable parts on the boiler, burner, or control.

Power supply

Install power supply in accordance with the regulations of the authorities having jurisdiction or, in absence of such requirements, in accordance with National Codes. Viessmann recommends the installation of a disconnect switch to the 120V power supply outside of the boiler room.

Ensure main power supply to equipment, the heating system, and all external controls have been deactivated. Close main oil or gas supply valve. Take precautions in both instances to avoid accidental activation of power during service work.

Please carefully read this manual prior to attempting installation. Any warranty is null and void if these instructions are not followed.

For information regarding other Viessmann System Technology componentry, please reference documentation of the respective product.

We offer frequent installation and service seminars to familiarize our partners with our products. Please inquire.

The completeness and functionality of field supplied electrical controls and components must be verified by the heating contractor. These include low water cut-offs, flow switches (if used), staging controls, pumps, motorized valves, air vents, thermostats, etc.





Turn off electric power supply before servicing. Contact with live electric components can cause shock or loss of life.

About these Installation Instructions



Take note of all symbols and notations intended to draw attention to potential hazards or important product information.



WARNING

Warnings draw your attention to the presence of potential hazards or important product information.



CAUTION

Cautions draw your attention to the presence of potential hazards or important product information.

- Indicates an imminently hazardous situation which, if not avoided, could result in death, serious injury or substantial product/property damage.
- Indicates an imminently hazardous situation which, if not avoided, may result in minor injury or product / property damage.

IMPORTANT





- Helpful hints for installation, operation or maintenance which pertain to the product.
- This symbol indicates to note additional information
- This symbol indicates that other instructions must be referenced.

Intended Use

Intended use

The gateway is only intended to be installed and operated in conjunction with Viessmann control units, with due attention paid to the associated installation, service and operating instructions. The gateway may only be used in systems with supported Viessmann heat and power generators.

The gateway can only be used with the user and communication

interfaces defined in the product documentation for the following purposes:

- To monitor systems
- To operate systems
- To optimize systems

With regard to the communication interfaces, ensure on site that the system requirements specified in the product documentation are met at all times for every transfer medium employed. Only use the specified components for the power supply (e.g. power supply units). Intended use presupposes that a fixed installation in conjunction with permissible, system-specific components has been carried out.

Commercial or industrial use for a purpose other than the monitoring, operation and optimization of supported, approved systems shall be deemed inappropriate. Incorrect usage or operation of the appliance (e.g. the appliance being opened by the system user) is prohibited and will result in an exclusion of liability. Incorrect usage also occurs if the components in the Viessmann system are modified from their intended function.

Product Information



The WAGO BACnet/IP gateway is used to connect Viessmann control units to BACnet systems. For supported devices and other valid product documentation, use the QR code on the left.

Functions

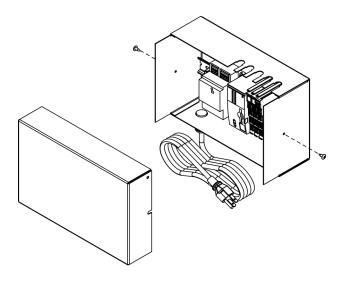
The system user can use the following functions via the gateway when connected to a BACnet system:

- Transferring heating system operating states
- Setting heating system parameters
- Relaying fault and maintenance messages

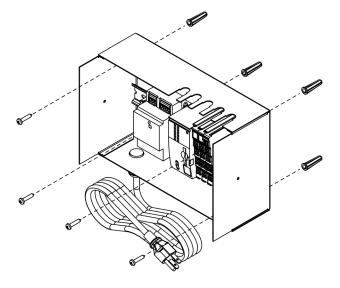
Spare Parts Lists

Information about spare parts can be found at www.viessmann.com/etapp or in the Viessmann spare part app.

Mounting the Gateway



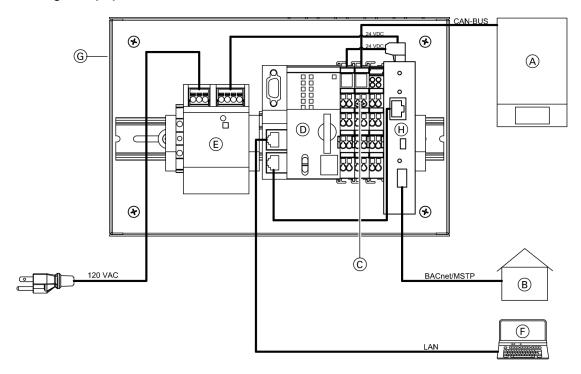
- 1. Loosen the retaining screws from the extension kit enclosure (do not remove).
- 2. Remove cover and set aside.



3. Mount the extension module enclosure to the wall using the appropriate hardware.

Preparing for Installation

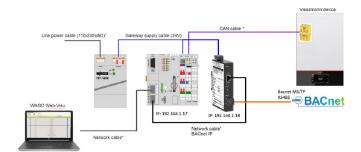
WAGO BACnet gateway system overview



Legend

- A Viessmann boiler
- B Building management system
- D Gateway
- E Power supply unit
- F Laptop with web browser and WAGO Web-Visu
- Module enclosure
- H BACnet IP to MS/TP router

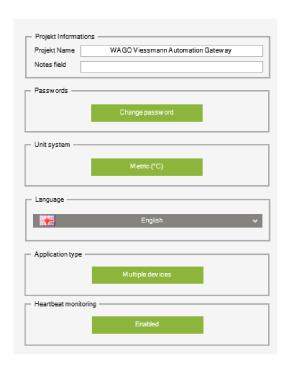
Quick Start Guide WAGO BACnet/IP with MS/TP Router



Install WAGO Gateway

Power up and connect WAGO Gateway to heat generators via CAN-Bus (91 plug).

- Power Supply 24VDC (116 mA, 2.8 W)
- Polarity sensitive (H, and L)
- Daisy chain using (ISO 11898-2, twisted pair cable, shielded, or CAT5 / CAT7)
- End resistors (or dip switch) on both ends of the daisy chain only



Web Visualisation - Discover Boilers add points

Note: Commission your boiler(s) before configuring the automation gateway

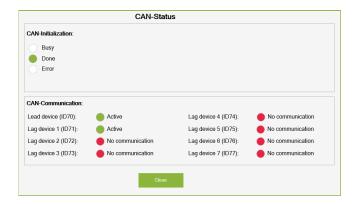
Open web browser to https://192.168.1.17 (user / user)

Project Settings

Navigate to General / Project Settings

- Select Units (Metric / Imperial)
- Select Application Type (Single or Multiple Devices)
- Heartbeat Monitoring
 - Enabled: BMS must write to "External Request (MV-1)" a value of "3" for BACnet cyclically, at least once per 10 sec. or heat generator reverts to internal control.
 - Disabled: "External Request (MV-1)" does not need to be written cyclically (just once). If connection to BMS is interrupted, the heat generator continues to adopt the setpoint that was written last.

Quick Start Guide WAGO BACnet/IP with MS/TP Router (continued)



Add Data points

Navigate to Datapoints / CAN-Status

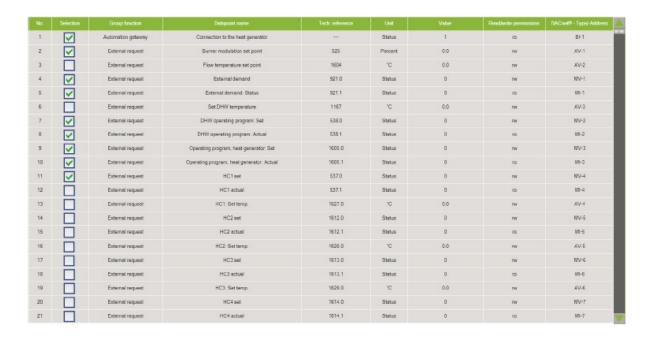
Make sure you see all the heat generators you want to add to the system



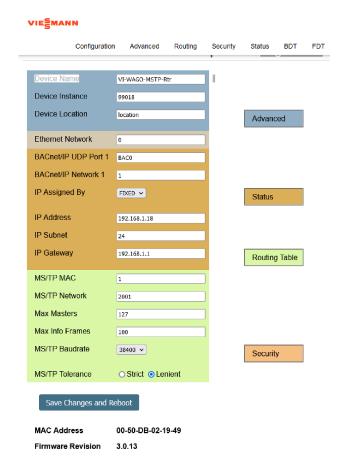
Select "Show Datapoints" and Confirm action to discover points

Select the points you want to add to the BMS

Note: You must do this step for each heat generator



Quick Start Guide WAGO BACnet/IP with MS/TP Router (continued)

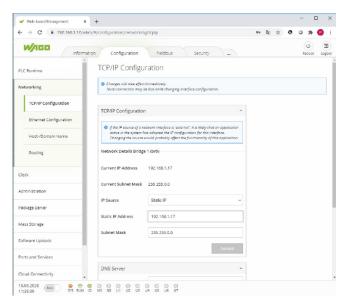


Configure the MS/TP router

Open Web browser to http://192.168.1.18 (admin / Vimaster99)

Note: It is recommended to leave the default IP address of 192.168.1.18 The Wago gateway and MS/TP router need to be on the same IP subnet to communicate with each other.

In the "Configuration" tab you can modify the MS/ TP (green) section to accommodate the BMS network requirements.



WBM - IP Address and UDP Port (Optional)

Note: It is recommended to not change the IP addresses for the Wago gateway and the MS/TP router as they both need to be on the same IP subnet to communicate.

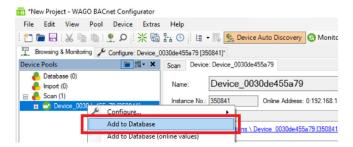
Open web browser to https://192.168.1.17/wbm (admin / wago) Navigate to Configuration / Networking / TCP/IP Configuration

Change the IP address, hit Submit button (IP changes immediately, change URL)

Optional:

- Configuration / Users Change passwords for wbm login
- Configuration / Networking / Routing (Default)
 Gateway Address
- Fieldbus / BACnet / Configuration BACnet UDP Port

Quick Start Guide WAGO BACnet/IP with MS/TP Router (continued)



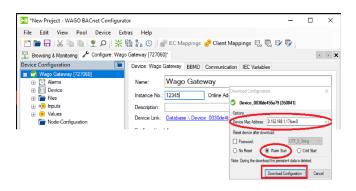
WAGO BACnet Configurator - Set BACnet Device ID (Optional)

Note: download the tool from the link on the left.

- 1. Scan the network for BACnet devices
- Right click on the WAGO Gateway, and select "Add to Database"



3. Switch to the "Database" tab, right click on the device and select "Configure"



4. Change the "Device Instance No" and "Name", then "Store and Download"

Process Overview

Step		Responsibility	Page	
1	Install the module.	Contractor	6	
2	Establish the CAN bus connection.	Contractor	12	
3	Connect the plug-in attachment.	Contractor	14	
4	Establish the connection to the BACnet.	IT expert/system integrator	15	
5	Power supply	Electrician	17	
6	Commission the gateway.	IT expert/system integrator	18	

Installing the Module

IMPORTANT

Incorrect ambient conditions and installation locations may impair data transfer and cause damage to the gateway.

Ambient conditions during operation

- Permissible ambient temperature:
- 32 to 102°F (0 to 40°C)
- Permissible relative humidity:
 - -32 to 102°F (0 to 39°C): ≤ 95%
 - $\ge 104^{\circ}F (40^{\circ}C) \le 50\%$
- No direct sunlight

IMPORTANT

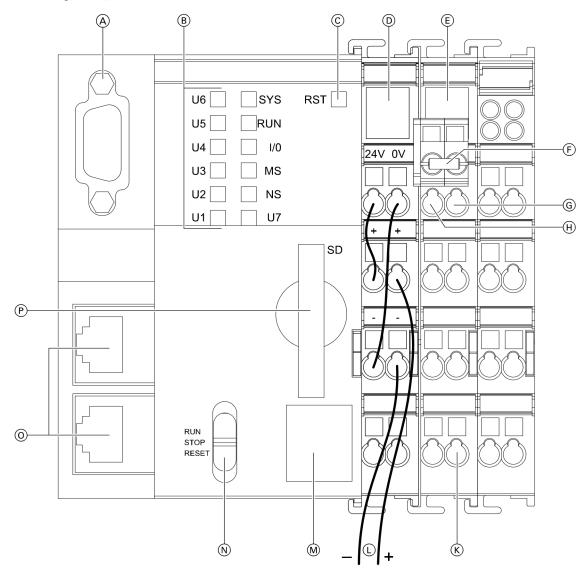
Operation by unauthorized persons may result in damage to the system. Access to the gateway must only be possible for authorized specialists with a key or tool.

Overview of connecting cables

Connecting cables	Length
Accessories:	
CAN bus cable	23 ft. (7 m)

Connections and Operating Elements

WAGO BACnet/IP gateway



Legend

- A Serial interface
- (B) LED status indicators
- © Reset button RST
- D Status LED for supply voltage
- (E) Status LED for CAN bus interface
- (F) Plug-in attachment with terminator: See page 14
- G CAN low, for looping through the CAN bus
- (H) CAN high, for looping through the CAN bus
- (K) CAN bus shield
- L 24VDC supply voltage connection
- M Do not open!

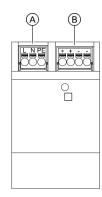
- N Operating mode switch
 - RUN Standard mode
 - Factory setting: Do not adjust!
 - STOP Only for update process;
 - see WAGO commissioning manual.
 - RESET Do not adjust!
- Service interface: LAN connection for connection to PC/laptop or BACnet/IP connection
- P Memory card slot

Connections and Operating Elements (continued)

LED indicators

LED	Status	Meaning	Measure
User LED U1	Green	The connection to the boiler is active.	
	Red	The CAN bus interface has the status "Bus Off": Short circuit or other serious fault	 Check CAN bus connection: Plug, cable, terminator Check whether boiler is switched on. Check installation and connections of gateway and power supply unit. If the fault cannot be rectified, contact Viessmann Technical Service.
	Other	Fault	Contact Viessmann Technical Service.

Power supply unit

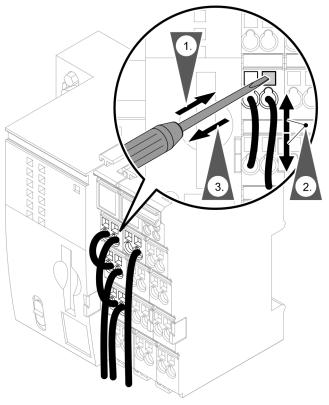


Legend

- (A) INPUT 120VAC, 60 Hz
- ® OUTPUT 24VDC, 1.3A

Connecting and Releasing Cores

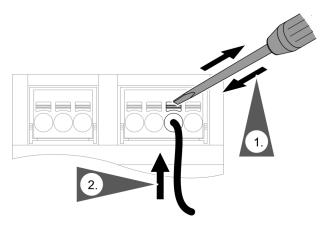
Gateway



- Insert a small flat head screwdriver into the opening directly above the wire..
- 2. Tilt the handle of the screwdriver up.
- 3. Pull the wire straight out.

Example: BACnet/IP gateway

Power supply unit



- 1. Using a small screwdriver push in the orange button directly above the wire.
- 2. Pull the wire straight out.

Establishing the CAN Bus Connection

- The Viessmann CAN bus is designed for "line" bus topology with a terminator at both ends (accessories).
- With CAN bus, the transmission quality and the cable lengths depend on the electrical properties of the cable:
 - Only use cable types listed in the following table.
 - Only use one cable type within a CAN bus.

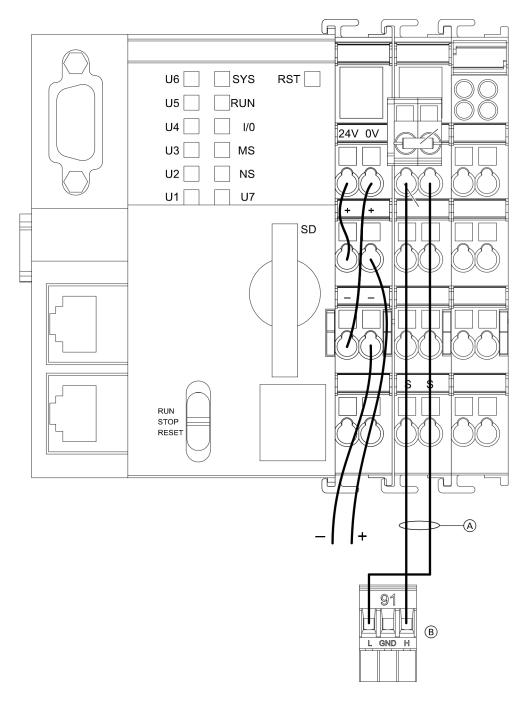
Recommended cable type (on site):

CAN bus cable	In line with ISO 11898-2, twisted pair cable, shielded
■ Cable cross-section	0.34 to 0.6 mm ² (22 to 18 AWG)
■ Characteristic impedance	95 to 140 Ω
■ Max. length	650 ft. (200 m)

Alternative cable types (on site):

CAN bus cable ■ Max. length	2-core, CAT5, shielded 165 ft. (50 m)
CAN bus cable ■ Max. length	2-core, CAT7, shielded 650 ft. (200 m)

Establishing the CAN Bus Connection (continued)



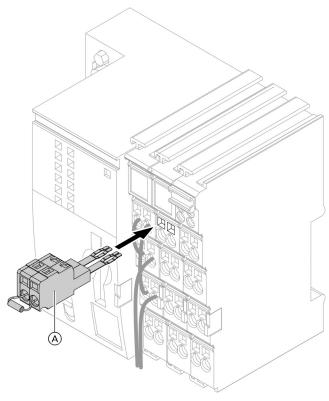
Legend

- (A) CAN bus shield
- B Cable for 91 for controlling the boiler (standard delivery of the gateway)



Installation and service instructions for boiler control unit

Connecting the Plug-in Attachment



WAGO BACnet/IP gateway

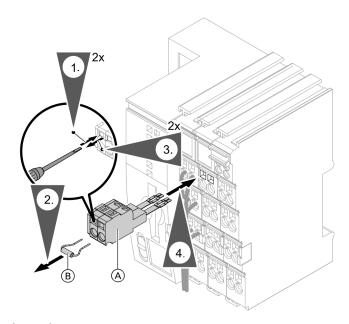
The plug-in attachment (standard delivery) must be plugged in.

Do not connect the plug-in attachment until the CAN bus cable has been connected.

If the gateway is at the beginning or end of the CAN bus:

Legend

A Plug-in attachment with terminator (standard delivery)



If the gateway is not at the beginning or end of the CAN bus:

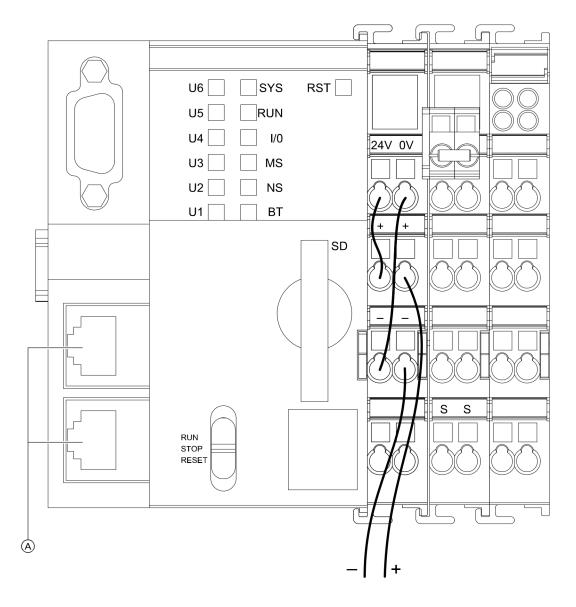
Plug in the plug-in attachment without the terminator. Use the plug-in attachment for looping through the CAN bus.

Legend

- A Plug-in attachment (standard delivery)
- **B** Terminator

Establishing the Connection to the BACnet/IP Gateway

The connection to the network must be established by the system integrator.

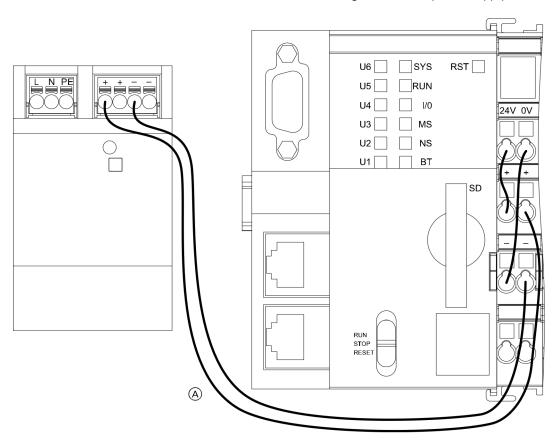


Legend

(A) Connect BACnet/IP via RJ45 interface

Connecting the Gateway to the Power Supply Unit

Connecting cores in the power supply unit.



Legend

Cable cores between gateway and power supply unit (standard delivery)

The WAGO gateway is supplied in the encloser with the power supply unit prewired to the gateway.

Power Supply

General information

The WAGO gateway comes complete with a 6 ft. (2 m) power cord with convience plug for simplified installation.



WARNING

The control must be grounded. Ensure that 'L', 'N' and 'G' are not interchanged.



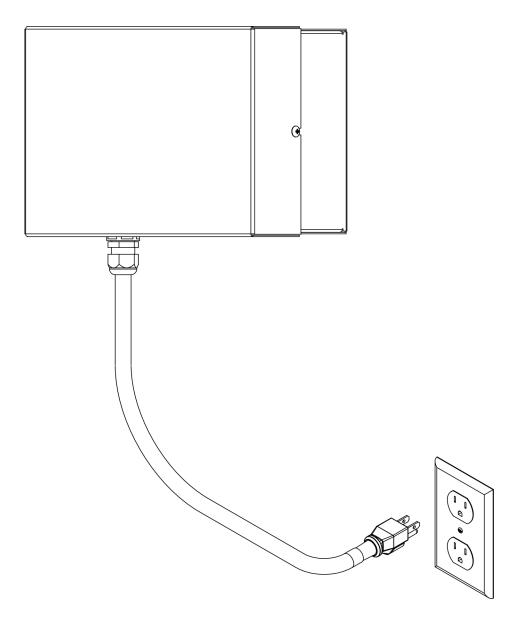
WARNING

Incorrectly executed electrical installations can lead to injuries from electrical current and result in appliance damage.

IMPORTANT

Electrical installations must comply with the latest edition of:

- In the U.S.A., the National Electrical Code (NEC), ANSI/NFPA 70 and any other state, local codes and/or regulations.
- In Canada, the Canadian Electrical Code (CEC), CSA C22.1 Part 1 and any other province, territory, local codes and/or regulations.



Commissioning the Gateway

WAGO BACnet configuration

- set BACnet device ID (optional)

Note: download the tool from the link below.



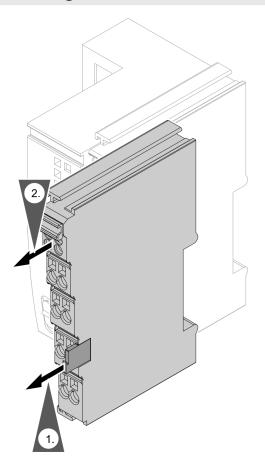
Commissioning must be carried out by the IT expert or system integrator.

- 1. Switch on the boiler.
- 2. Switch on the power supply for the gateway.
- Check the status of the LED for standard mode after switching on: See the following table.
 If the LED indicators do not match the table, check the connections: See overview on page 8.

LED indicators	Status of the LED for standard mode
SYS	Green
RUN	Green
I/O	Green
MS	OFF
NS	OFF
U1	Green
U2 - U6	Off
ВТ	Green Note: If the LED lights up red or yellow, a BACnet-specific error is present. Clarification with system integrator is required

Scan the network for BACnet devices. Right click on the WAGO Gateway, and select "Add to Database"

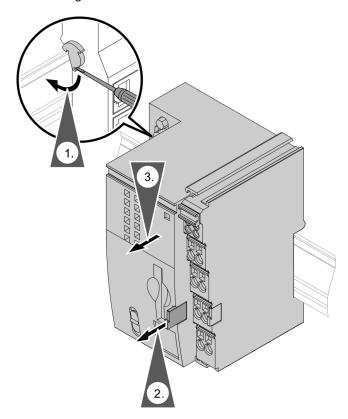
Dismounting the Terminals



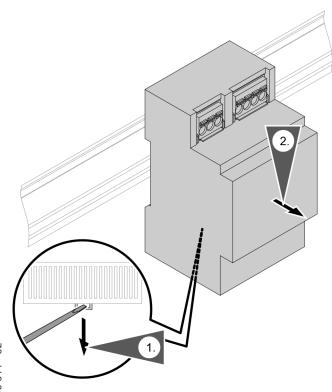
If the gateway or power supply unit need to be dismounted, e.g. because the device is faulty, proceed as shown in the following diagrams.

Dismounting the Gateway

Dismounting the controller



Dismounting the Power Supply Unit



Gateway

WAGO BACnet/IP gateway

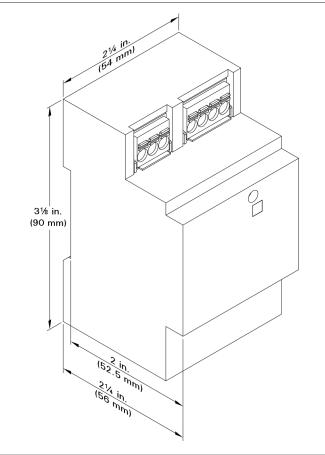
Power supply	24VDC
Power consumption	Max. 116 mA
Nominal rating	2.8 W
Permissible ambient temperature Operation Storage Transport	32 to 104°F (0 to 40°C) -4 to 140°F (-20 to +60°C) -4 to 140°F (-20 to +60°C) for max. 3 months or average 95°F (35°C)
Dimensions	4 in. (100 mm) 21/2 in. (100 mm) 172 mm)

Power Supply

Power supply unit

Rated voltage	100 to 240V~
Rated frequency	50 to 60 Hz
Rated current	1.34A
Output voltage	24VDC
Permissible ambient temperature Operation	32 to 104°F (0 to 40°C)
■ Storage and transport	-40 to 185°F (-40 to +85°C)

Dimensions



BACnet/IP to MS/TP Router Specification





To provide a BACnet MS/TP interface to the Viessmann Automation Gateway BACnet/IP.

The router routes messages between BACnet/IP and BACnet MS/TP networks as per the ANSI/ ASHRAE 135 (ISO 16484-5) standard. It allows BACnet MS/TP devices connected over RS485 to communicate with the Automation Gateway which is BACnet/IP only. The router is configurable via its web page.

Default IP: 192.168.1.18

User: admin Pass: Vimaster99

Device: Contemporary Controls BASrouter Complete User guide can be found at

https://www.ccontrols.com/basautomation/basrouter.php

Features and Benefits

- Route between BACnet®/IP to BACnet® MS/TP networks
- Diagnostic LEDs include MS/TP traffic monitor
- Optically isolated MS/TP communication port
- Web server for commissioning, reconfiguring and troubleshooting
- 10/100 Mbps Ethernet auto-negotiation and automatic medium-dependent interface crossover port

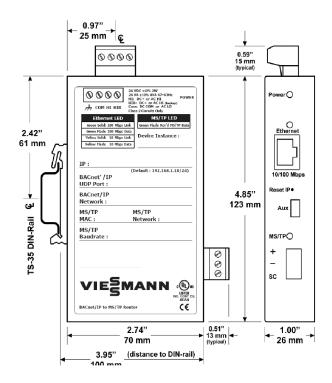
Product Specifications

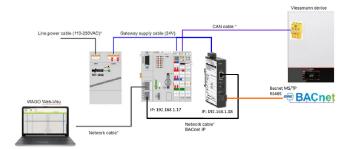
D
Power Input DC
Voltage 24 (±10%)
Power Consumption2 W
InputAC
Voltage24 (±10%) (47-63 Hz)
Power Consumption4 VA
Environmental
Operating Temperature40°C to 75°C; -40°F to 167°F
Storage Temperature
Relative Humidity10-95%, non-condensing
Enclosure
MaterialMetal (Black)
Dimensions (W x H x D) 2.76" x 4.85" x 1.00"
(70 mm x 123 mm x 26 mm)
InstallationTS-35 DIN Rail
Ethernet Port
ComplianceIEEE 802.3
Data Rate10 Mbps, 100 Mbps
Physical Layer10BASE-T, 100BASE-TX
Max Cable Length100 m
Port ConnectorShielded RJ-45
LED IndicatorsGreen = 100 Mbps (flash for activity)
Yellow = 10 Mbps (flash for activity)
MS/TP Port
ComplianceANSI/ASHRAE 135 (ISO 16484-5)
Data Rate9,600; 16,200; 38,400; 76,800 bps
Physical LayerEIA-485
Max Cable Length1200 m
Port Connector3-pin terminal block
Jumper-selectable bias and termination
LED IndicatorsGreen = MS/TP (flash for activity)
Regulatory Compliance
FCCPart 15 Class A
UL508

CSA--- C22.2 No. 142-M1987: Industrial Control Equipment

BACnet/IP to MS/TP Router Specification (continued)

Dimensions





After successfully logging in, the main -Router Configuration web page is loaded. This page allows for setting up router parameters.

Reset IP Switch

The Reset IP switch is located on the front, underneath RJ-45 connector. To reset the router to its default values (except for configuration settings), press and hold the Reset IP button using a paper clip for at least 3 seconds while the router is powered. Remove power and restore power again to complete the reset IP, User ID, and Password procedure to factory-programmed default values as shown below. Default User Name is admin and default Password is admin.

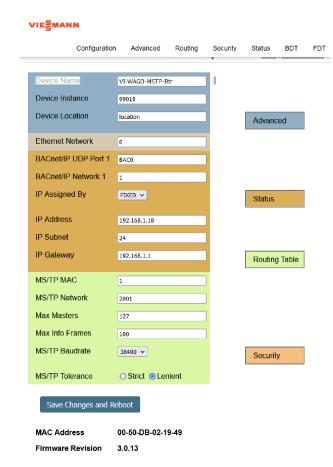
Webpage Configuration

The BASrouter contains an interactive web server accessible from any Internet-compatible PC on the local network with recent versions of most standard web browsers such as Microsoft Internet Explorer, Microsoft Edge, Mozilla Firefox, or Google Chrome installed. It is factory-programmed with a default fixed IP address of 192.168.1.18 and a Class C subnet mask of 255.255.255.0 (/24). The default login credentials for the web page are admin / Vimaster99.

The figure shows the setup for initial network configuration. Using BASRT-B, a computer for configuration, and a connection to the MS/TP network.

To configure the router, connect it to a computer with an Ethernet cable and use a standard web browser. For initial configuration, the PC chosen for the procedure should temporarily have its IP address modified to match the default subnet of the BASrouter and Wago gateway.

BACnet/IP to MS/TP Router Specification (continued)



Web page navigation

The BASrouter has a navigation bar at the top of the web page which can be used to navigate through all its configuration, advanced settings, status, bdt and fdt tables, and security tabs.

CONTEMPORARY CONTROLS Configuration Advanced Routing Security Status BDT FDT

In addition, a dedicated button for each configuration item is placed on the main web page adjacent to the configuration fields:

When the Save Changes button is clicked, the parameters are stored to non-volatile memory, the unit will automatically reboot (in a few seconds) and the changes will take effect. Advanced, Status and Security screens used to access status and more configuration.

Device Parameters

Device Name

The BASrouter's Device Object Name can be configured in this field. It is required to be unique throughout the BACnet network. It can be up to 20 characters.

Device Instance (Default Value = 99018)

The router's device instance is a 22-bit value (0-4,194,302). Do not use 4,194,303 which is reserved by BACnet. Each BACnet device within the same BACnet internetwork must have a unique device instance. One must be assigned to the BASRT-B.

Device Location (Default Value = location)
The Device Location can be configured in this field.

BACnet Ethernet (0 disables BACnet Ethernet)

Ethernet Network (Default Value = 0) Leave at 0 to disable, not used for communication with Wago Automation Gateway

BACnet/IP to MS/TP Router Specification (continued)

BACnet/IP Parameters

BACnet/IP UDP Port (Default Value = 0xBAC0)

This 16-bit hex value (BAC0–BACF) is set to BAC0 by default. Usually, this default value should not be changed. In typical networks, each BACnet/IP device will use the same UDP port.

BACnet/IP Network (Default Value = 1)

Like all networks in the BACnet internetwork, the BACnet/IP network must have a unique number (1–65534). Do not use addresses 0 or 65535 since these addresses are reserved.

This value must NOT be the same as MS/TP network number.

IP Assigned By (Default Value = FIXED)

The default IP address of the BASrouter is FIXED but can be obtained automatically from a DHCP server or can be set to a FIXED (static) IP address.

IP Address (Default Value = 192.168.1.18)

The IP address of the router can be 1.0.0.1–223.255.255.254. A private address is usually assigned to the BASRT-B.

IP Subnet (Default Value = 24)

This value (0–31 in the "slash" notation) is the number of bits with a "1" in the mask. The default value of 24 corresponds to 255.255.255.0 in the dotted decimal format. All devices on the same subnet which communicate via BACnet/IP should use the same subnet mask.

IP Gateway (Default Value = 192.168.1.1)

The default gateway for the IP stack is a dotted decimal number in the range of 1.0.0.1–223.255.255.254. This will be the IP address of your local IP router — if one exists.

MS/TP Parameters

MS/TP MAC (Default Value = 01)

This is the unique 8-bit (0–127) MAC address of the router's MS/TP port, in decimal. Lower MAC address numbers are preferred with the default recommended. It is further recommended that all other BACnet devices attached to the same MS/TP network be assigned consecutive MAC addresses beginning with 1 without allowing any gaps in addressing. Slave devices may have MAC addresses of 128–254, but MAC address 255 is reserved.

MS/TP Network (Default Value = 2001)

This 16-bit decimal network number (1–65534) must be unique for all BACnet networks within the BACnet internetwork. No other networks, regardless of type, can have the same network number. Do not use addresses 0 or 65535 since these are reserved. Make sure the MS/TP network number does not match the BACnet/IP network number. They must be different.

Max Masters (Default Value = 127)

Only master nodes participate in the MS/TP token-passing process. The highest master MAC address (in decimal) in the MS/TP network is 127 and you should use 127 if you are unsure of other MS/TP device addresses. Each MS/TP device should use this same value. For a value in this field to be proper, it must equal or exceed the highest MAC address for any master on the network. Optimum performance occurs when this value:

equals the highest MAC address of any master, and all masters use sequential MAC addresses starting with 1 Since many BACnet devices do not allow this parameter to be changed, leave the BASRT-B at the default value.

Max Info Frames (Default Value = 100)

This is the maximum number of messages that can be routed onto the MS/TP network by the router per token pass. Its range is 1–100, and typical values are 20–40. Smaller values provide less access to the MS/TP network from the BACnet/IP network because they give native MS/TP messages higher priority than those passed by the router from BACnet/IP. The default value usually provides good performance.

MS/TP Baud Rate (Default Value = 38400)

The baud rate of the MS/TP network can be 9600, 19200, 38400 or 76800 bps. All MS/TP devices on the same MS/TP network must use the same baud rate. On power up, as the router polls for other masters, autobauding devices adjust to its baud rate.

MS/TP Tolerance (Default Selection = Strict)

This setting determines the degree to which interoperability with devices is successful. The Lenient option is less efficient for traffic flow but optimizes interoperability. When using Lenient the BASrouter will wait longer for devices to respond to a poll for master request. A slight improvement in performance will be realized by selecting the Strict setting.

Final Decommissioning and Disposal

Viessmann products can be recycled. Components and substances from the system are not part of ordinary household waste.

For decommissioning the system, isolate the system from the power supply and allow components to cool down where appropriate.

All components must be disposed of correctly.

