

Versatronik® 501 & 501D NR2/LON Communication Gateway

120VAC Wall-mount 704049
24VAC DIN-rail mount 704068



Effective Date: June 25, 2010

Previous Revision: N/A

Product Overview

The Versatronik® 501 & 501D NR2/LON gateway allows Viessmann® NR2 controls to remain operational in autobinding

mode, while providing information to BAS, BMS/DDC systems.

These gateways provide a communication translation between applicable controls

and BMS systems which are capable of LON® communications.

The gateway may be either part of a control panel or stand-alone control device.

Special Features

Available data points (*readable*):

- Boilers 1-4 actual temperature
- Boilers 1-4 actual return temperature sensors 1 and 2
- Boilers 1-4 actual flue-gas temperature
- Boilers 1-4 fault code
- Boilers 1-4 relay state
- Zone/ cascade/ boiler outdoor temperature
- Zone/ cascade/ boiler relay state
- Zone/ cascade/ boiler fault code
- Zone/ cascade/ boiler DHW actual temperature
- Zone/ cascade/ boiler zones A1+M2+M3 supply actual temperature
- Zone/ cascade/ boiler Zone A1 actual return temperature

(*readable/ writeable*):

- Boilers 1-4 + zone/ cascade/ boiler LON addresses
- Zone/ cascade/ boiler DHW setpoint
- Zone/ cascade/ boiler zones A1 + M2 + M3 supply setpoint
- Zone/ cascade/ boiler zones A1 + M2 + M3 curve shift

- zone/ cascade/ boiler zones A1 + M2 + M3 curve slope
- Zone/ cascade/ boiler zones A1 + M2 + M3 curve room temperature normal
- Zone/ cascade/ boiler zones A1 + M2 + M3 curve room temperature reduced
- °C or °F selectable

Please note that these features are a function of boiler control manufacturer programming.

Please refer to the technical instruction manual of your boiler control for a complete list of points available for each control.

Specifications

Electrical:

120VAC Wall-mount or
24VAC DIN-rail mount

Power Requirements:

120VAC Wall-mount:
MAX 7.5W
24VAC DIN-rail mount:
MAX 12W

Recommendations:

Avoid running wires beside or near high voltage 120/240VAC conductors. If proximity to high voltage conductors cannot be

avoided, use stranded, twisted pair of shield design wire. Ensure that only one end of the shielding is grounded.

Appearance and Weight:

120V Wall-mount:
Mounting style: Wall (field-supplied screws)
Supply Voltage: 120VAC (power cord supplied)
Dimensions
8" X 6.5" X 1.75"
(200 X 165 X 45 mm)
Weight: 3.55 lbs (1.6 Kg)
Appearance: galvanized steel base with white metal cover

24VAC DIN-rail mount:
Mounting style: DIN-rail
Supply Voltage: 24VAC (power supply not included)
Dimensions:
6.25" X 3.5" X 2.25"
(160 X 90 X 60 mm)
Weight: 0.5 lbs (225 Grams)
Appearance: tan-coloured enclosure

Currently Supported Devices:

- Vitocontrol-S, MW1 and MW2
- Vitotronic 100, GC1
- Vitotronic 300, GW2
- Vitotronic 200, HO1
- Vitotronic 100, KK10LON

KWE PN 394048 Versatronik® 501 NR2/LON Communication Gateway V1.0 June 25, 2010 Technical information subject to change without notice.

Additional Information

Surroundings:

Mount 120VAC gateway in a convenient location near the connected boiler control.

Mount 24VAC gateway onto DIN-rail within an enclosure in a convenient location near the boiler control.

Terminals:

- LON® termination with RJ45 socket and LON adapter

External Diagnostics:

- Flashing LED fault diagnostic

Programming:

Individual LON® configuration into communication system required.

Networks:

- TP/FT-10

Protocols:

- LON®

Agency Compliances:

The 120VAC wall-mount unit is CSA compliant.



C US LR 102874

Trademark Information

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