

Versatronik® 521 & 521D OT/LON Communication Gateway

120VAC Wall-mount 704052
24VAC DIN-rail mount 704072



Effective Date: June 15, 2010
Previous Revision: N/A

Product Overview

The Versatronik® 521 & 521D OT/LON gateway provides a communication translation between OpenTherm® enabled boilers and LON® enabled BMS systems.

The Versatronik® gateway may be either part of a control panel (24VAC) or stand-alone control device (120VAC).

The gateway communicates with an OT-enabled boiler. It allows a LON-enabled management system to take control of the boiler.

The OT/LON® model has the ability to communicate directly with the boiler. This makes it possible to have a building management system take control of your OT enabled boilers. In this configuration, a thermostat is not required.

Special Features

Available data points:

- Boiler setpoint (also writeable)
- Boiler water temperature
- Maximum modulation level
- Current modulation level
- Room temperature
- Room temperature setpoint (room thermostat is required)
- Outside temperature
- Return water temperature
- Flue gas temperature
- Boiler heat exchanger temperature
- Boiler fan speed
- Water pressure
- OEM fault
- OEM diagnostic code
- Boiler faults (service required, lockout, gas/ flame, air pressure, water over-temp)
- Flame status
- °C or °F selectable

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

Please contact your boiler manufacturer for a complete list of features available.

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:

120VAC 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 45mm)

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 60mm)

Weight: 0.5 lbs (255g)

Appearance: tan-coloured plastic enclosure

Surroundings:

120VAC gateway to be mounted in a convenient location near the connected boiler control.

24VAC gateway to be mounted onto DIN-rail within an enclosure in a convenient location near the boiler controls.

Additional Information

Terminals:

- OT termination with screw 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
- OpenTherm[®] is two-wire, non-polarity sensitive protocol which transmits power and digital communication

Protocols:

- LON[®]

Agency Compliances:

The 120VAC wall-mount unit is CSA compliant.



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Trademark Information

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