Versatronik® 525 & 525D OT/BACIP
Communication Gateway

KWE Technologies Group

120VAC Wall-mount 704051
24VAC DIN-rail mount 704073

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

Product Overview

The Versatronik® 525 & 525D OT/BACIP gateway provides a communication translation between OpenTherm® enabled boilers and BACnet® 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 BACnet-enabled management system to take control of the boiler.

The OT/BACnet® IP 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
- BACnet termination with RJ45 socket

External Diagnostics:
- Flashing LED fault diagnostic

Programming:
Individual BACnet® configuration into communication system required.

Networks:
- TCP/IP
- Ethernet

Protocols:
- BACnet®
- OpenTherm® is two-wire, non-polarity sensitive protocol which transmits power and digital communication

Agency Compliances:
The 120VAC wall-mount unit is CSA compliant.

C US LR 102874

Trademark Information
Versatronik® is a registered trademark of K-W Electronic Service Inc.

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BACnet® is a trademark of the American Society of Heating, Refrigeration and Air-Conditioning Engineers, Inc. 1971 Tuillie Circle NE, Atlanta, GA 30329

www.bacnet.org
www.ashrae.org

OpenTherm® is a trademark of the OpenTherm Association.
www.opentherm.eu

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