Versatronik® 200
System Control

KWE PN 701010

July 2, 2010
Previous Revision: N/A

KWE
Technologies
⚒ ☾ Group

Product Overview
The Versatronik® 200 is a multi-function cascade control for OpenTherm® (OT) enabled boilers. It is capable of OT communication with up to 8 boilers via the Coco OT communication modules.

The Versatronik® is able to control 2 mixing valve circuits along with circuit pumps and DHW functions. The user interface is a multi-line screen with a rotary dial providing menu navigation.

The housing is of metal construction with knockouts top and bottom to allow for both sensor and 120VAC connections.

Special Features
Heating Applications:
- Up to 8 OpenTherm® boilers
- 2 heat-zone pumps and mixing valves
- DHW, common supply, and circulation pumps
- Hydronic heating

Easy Programming:
- Rotary knob for navigating through menu
- Backlit 4-line screen with easy-to-read fonts
- 4 buttons for selecting lines to view or change
- Optional communication with PC for external monitoring and control
- BACnet® and LON® communication with optional Versatronik® gateway
- 7-day programmable
- 3 heating periods per day (different temperature setpoints)
- 2 heating zones and one DHW schedule
- Holiday and party modes

Additional Features:
- Optional room thermostats for each zone
- Outdoor sensor for more efficient boiler setpoint calculations

Specifications:
Electrical:
Control: 120VAC
Outdoor Temperature Sensor: 5K DHW, mixing valve, NTC resistive element

Power Requirements:
120VAC Wall-mount: MAX 14W

Appearance and Weight
Control:
Width: 24.5cm (9.6")
Height: 27.9cm (11")
Depth: 6cm (2.4")
Weight: 3.5kg (7.7 lbs)
Appearance: white metal base and cover

Outdoor Temperature Sensor:
Width: 4.7cm (1.9")
Height: 7.2cm (2.8")
Depth: 2.9cm (1.1")
Weight: 38.5g (0.08 lbs)
Appearance: white plastic enclosure

External Diagnostics:
- 4-line display with fault codes
- Relay test
- Flashing LED indicator with CoCo OT (accessory)

Networks:
- OpenTherm® with CoCo OT (accessory)
- RS232 with CoCo PC (accessory)

Protocols:
- OpenTherm®

Surroundings:
Control:
When considering a location where to mount the control, consider the following avoidances: pressure relief valves, overhead pipes, or any devices which may cause water damage to the control.

Outdoor Temperature Sensor:
This sensor should be mounted 2 to 2.5m (6.5' to 8') above ground level on the north or north-west facing wall of the building. In the case of multi-storey buildings, it should be mounted in the upper half of the second storey. Make sure that the sensor is not located over windows, doors and air vents, nor immediately beneath a balcony or guttering. Do not paint over the outdoor temperature sensor housing.

Additional Information

Recommendations:
When extending wire there is the possibility of exposure to electromagnetic interference. 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.

Terminals:
Removable screw terminals

Agency Compliances:
The Versatronik® 200 is CSA compliant.

C US LR 102874

Trademark Information

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

KWE Technologies Group is a wholly owned subsidiary of K-W Electronic Service Inc.

750 McMurray Road, Waterloo, Ontario, Canada, N2V 2G5
Tel: (519) 747-5042
Fax: (519) 748-4448
www.kwe-tech.com
info@kwe-tech.com

OpenTherm® is a trademark of the OpenTherm Association.

www.opentherm.eu

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

Echelon®, LON®, LONWORKS®, i.LON®, LNS®, LONMARK®, Neuron® and the LonUsers logo are trademarks of Echelon Corporation registered in the Unites States and other countries. www.echelon.com

NOTE: We reserve the right to make technical changes designed to improve our products without prior notice.