

MultiFlex RCB



The Next Generation of Rooftop Control

CPC's MultiFlex Rooftop Control Board (RCB) (P/N 810-3062) is a rooftop HVAC controller for use either as a stand-alone controller or in networked zone control applications. Using on-board I/O and control algorithms, the MultiFlex RCB is capable of controlling heating and cooling stages, fans, economizers, as well as humidification and dehumidification devices. The RCB may also monitor and interact with other building control systems and peripherals, such as smoke alarms and CO2 sensors.



Application Flexibility

The compact size of the MultiFlex RCB allows technicians to easily mount the RCB in a rooftop unit or small enclosure near the unit. This allows for easy local connection of sensors and transducers, reducing both installation time and cost. The board has sixteen analog inputs, with default configurations pre-loaded for quick connection to space temperature sensors, supply and return air temperature sensors, and fan and compressor proofs. Its eight relay outputs are used for activating and deactivating fans, heat and cool stages, economizers, and other systems or devices. Its four analog outputs may be used for air damper, modulated heat and cool control, and variable-speed fan control.



Independent System Control

The MultiFlex RCB can control a rooftop unit independently without the need of a central controller (such as CPC's E2 Facility Management System). However, the RCB is designed to be interfaced with an E2 Facility Management System to allow it to work together with other RCB's and control large zones. When networked with other RCB's, important global data (i.e. outside air temperature and humidity, CO2 level, etc.) may be shared between units for greater effectiveness.

Accessibility

Networking the RCB to a central controller also allows you to view its status on E2 and UltraSite(TM) status screens, report alarms, and log point values, both from the facility and remotely. The RCB's configuration can be programmed either with a CPC Hand-Held Terminal (HHT), through the E2 front panel, or via UltraSite.



RCB and RTU Capability Comparison

	MultiFlex RTU	MultiFlex RCB
Input Points	8	16
Configurable Inputs	2	16
Analog Outputs	2	4
Relay Outputs	8	8
Modulating Heating		X
Staged Heating	X	X
Modulating Cooling		X
Staged Cooling	X	X
Variable Speed Drive Control	X	X
Indoor Air Quality (CO2)	X	X
Differential VSD Control		X
Runtime Equalization		X
Economizer Control	X	X



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Form No. 2005CPC-40 (7/05)

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