

MultiFlex RCB

The Next Generation of Rooftop Control

Emerson Retail Solutions' MultiFlex Rooftop Control Board (RCB) (P/N 810-3075) 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 controls 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, heating and cooling stages, economizers, and other systems or devices. Its four analog outputs may be used for air damper, modulated heating and cooling control, and variable-speed fan control.



P/N 810-3075



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 RCBs and control large zones. When networked with other RCBs, important global data (i.e. outside air temperature and humidity, CO₂ level, etc.) may be shared between units for greater effectiveness.

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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 (CO ₂)	X	X
Differential VSD Control		X
Runtime Equalization		X
Economizer Control	X	X



Accessibility

Networking the RCB to a central controller also allows you to view its status on E2 and UltraSite™ 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!™



Intelligent Store™ Architecture

MultiFlex RCB is a hardware component of Emerson's Intelligent Store™ architecture. The architecture creates an integrated suite of products and services that provide retail operators a new level of sophistication and insight into their operations. When integrated or linked together, these innovative products and services can provide maintenance, energy, and reliability gains. Also included in the Intelligent Store are the E2 Facility Management System, Control Link® device controller, Intelligent Store Discus® compressor, select Lennox HVAC units, and other third party devices. For more information on Emerson's Intelligent Store, the E2 platform, or facility monitoring and field services, please visit EmersonRetailSolutions.com



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