

RSC ACX Expansion Module

The RSC ACX is an expansion module designed to control HVAC systems and communicate with the RSC 1000 to expand its capability. Up to two ACX modules can be networked to the RSC 1000 to control up to four HVAC systems. The ACX has the same control capability as the RSC 1000 to provide universal support for multiple HVAC systems. Systems that are single stage, two stage, direct expansion, heat pumps, Economizers and variable speed fans are supported to provide optimum control and reduce operating costs. The RSC 1000 setup wizard will allow the user to select the number of HVAC units and control modes desired for lead/lag operation and number of HVAC units to include in the lead group.

The ACX can be powered from the HVAC system or from a separate DC plant. The expansion module supports a separate zone/return air sensor for monitoring and control if the network communications fail. The system will maintain a user selectable temperature in standalone mode.


RSC ACX Expansion Module

Specifications for the RSC ACX	
Part Number	151045
Mounting	Wall mount
Inputs	3 dry contact digital inputs (Normally Open/Closed) 3 Thermistor Inputs (10k Type3), and 1 0-20 mA sensor
Digital Outputs	6 digital outputs - (4 SPST, 2 SPDT) 8 Amp at 250 VAC, 5 Amp at 300 VDC
Analog Outputs	2 analog outputs 0-10 VDC
Power	24 VAC power from HVAC 18-65 VDC
Serial Port	RS-485 (2 wire) for communication to the RSC 1000
I/O Terminals	2 piece pull-off terminals for all field wiring
Temperature Sensor	Temp: $\pm 1^{\circ}\text{F}$ ($\pm 0.5^{\circ}\text{C}$)
Ambient Operating Temp	23° to 131°F (-5° to 55°C), 0-95% RH Non-condensing
Dimensions	10"W x 7.1"H x 2"D (254 x 180 x 51 mm)
Weight	3 lb. (1.4 kg)
Warranty	1 year

Available Sensors	
Part Number	Sensor
150681	Zone temperature sensor (thermistor) Indoor wall mount enclosure
150749	Zone temperature sensor (thermistor)/Humidity (3%/4-20mA) Wall Mount
300199	Supply air temperature (thermistor) sensor, bell box duct mount with 8" probe
300781	Fan Run Monitor - Split Core Current Sensor (on/off) - Solid state switch, SPST, 30VAC/DC, 0.4 Amp max (terminal strip, accepts #14-22 AWG wire), 0.35-150 Amp
150979	Dirty Filter Monitor - Differential Pressure Switch

Specifications subject to change without notice

RSC ACX - I/O Summary	
Inputs	Qty
Analog Inputs	4
Zone / Return Sensor	1
HVAC Supply Temp	1
HVAC Mixed Air Temp	1
4-20mA Inputs HVAC Current	1
Digital Inputs	3
Low Voltage HVAC Power Loss	1
HVAC Lockout Monitor	1
Fan/Filter/Econ Status	1
Digital Outputs	Qty
Digital Outputs for Control	6
HVAC Supply Fan	1
HVAC Cool 1	1
HVAC Cool 2	1
HVAC Heat 1	1
HVAC Emergency Vent	1
HVAC Auxiliary (SPDT)	1
Analog Outputs	Qty
HVAC Economizer Damper	1
HVAC Supply Fan	1