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Compact Mixing Reset Control
Submittal - Page 1 of 2

Job or Customer :	
Location :	
Engineer :	
❑ Complies with Spec ❑ Alternate	Notes :
Contractor :	
HeatLink Rep :	
Submitted By :	Date :
Approved By :	Date :
P.O. Number :	Date :

Description

The 31355 Compact Mixing Reset Control regulates the supply water temperature of an automated mixing valve in order to provide outdoor reset or setpoint operation. The 31355 provides a floating action (3-way or 4-way mixing) or a 0/2 – 10 V(dc) (2-way injection) signal to adjust the mixing valve position. The 31355 also includes two separate night setback channels. Outdoor sensor and 1 universal sensor are included.

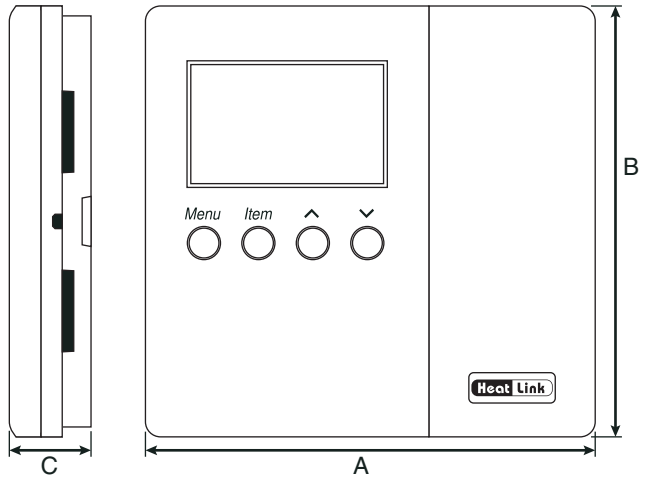
Technical Data

Enclosure Material:..... White PVC plastic
Operating Voltage:..... 24V(ac)±10% 50/60Hz
Power Consumption: ..... 50VA (max), 4.5 VA standby
Floating Output: ..... 24V(ac) 48 VA (max)
0/2-10V(dc) output:..... 2 kΩ minimum load
(5 mA maximum current)
Boiler Relay: ..... 230V(ac) 5A
Timer / Pump / Mixing Relays:..... 24V(ac) 2A
Pump Output: ..... 24V(ac) 48VA (max) powered output
Mixing Demand:..... Low voltage dry contacts
Sensors: ..... NTC thermistor, 10 kΩ @ 77°F
(25°C ± 0.2°C) ß = 3892
Included: ..... Universal Sensor 30071 and
Outdoor Sensor 30070
Optional:..... Indoor Sensor 30076, 30077

Standards / Listings

- CSA C22.2 No 24-93 Temperature Indicating & Regulating Equipment
- UL 873 Eleventh Edition Temperature Indicating & Regulating Equipment
- Control has been tested to meet CE requirements.

Qty	Stk. #	Dimensions A	B	C	Weight
	31355	4-11/16" (119 mm)	4-1/2" (114 mm)	15/16" (24 mm)	1.4 lb 650 g



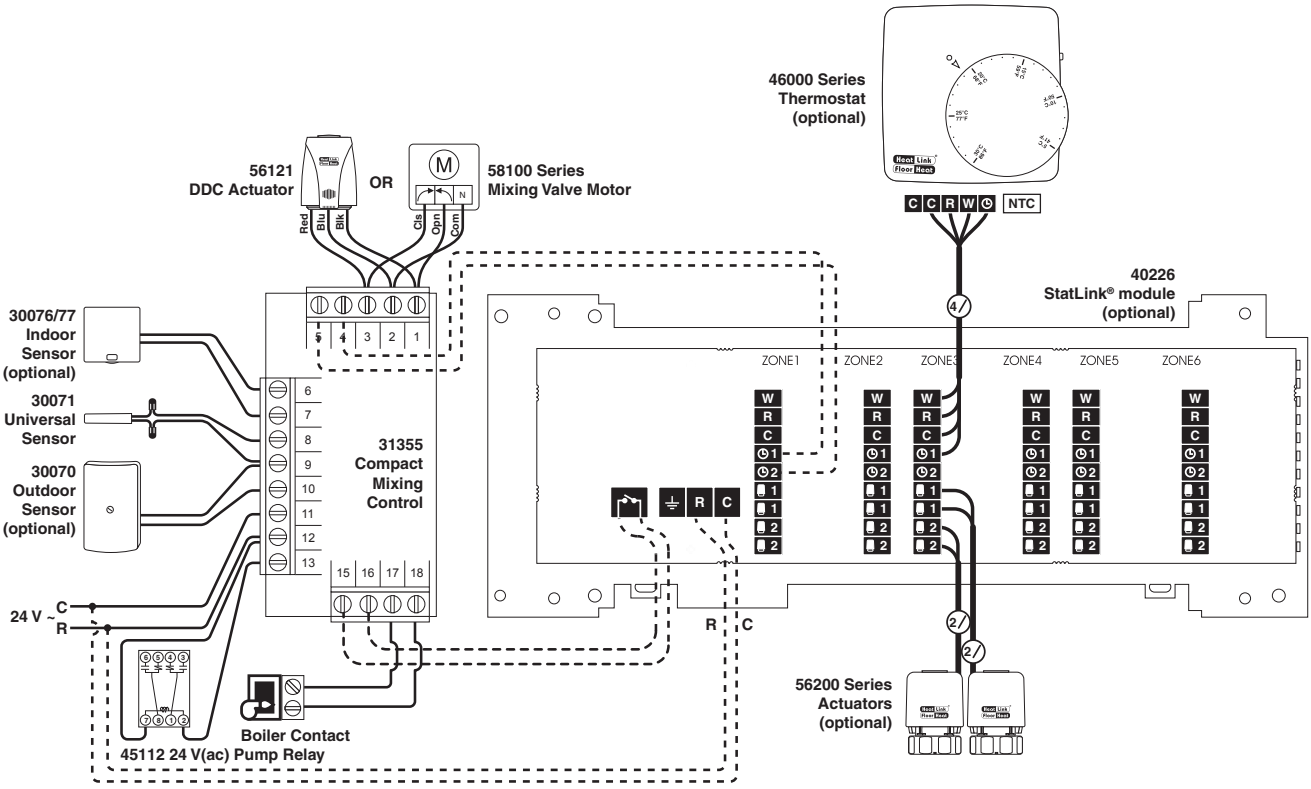
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Sample Wiring Diagram

The 31355 control is designed to be used in single zone applications or in multiple zone applications with thermostats or the StatLink® system.

The connection to StatLink® is very simple. Both the heat demand signal to the control and the timer signals back to StatLink® are straight forward direct connections.



Reset or Setpoint Operation

Reset characteristic set by the following:

- Indoor target occupied, unoccupied and sleep (setback temperatures used only when in single zone operation)
- Outdoor design
- Indoor design
- Mixing design with min and max
- Type of system
- WWSD
- Optional external indoor temperature sensor

Outputs

- Valve operator (one of three options):
  - 0-10 V(dc)
  - 2-10 V(dc)
  - 24 V(ac) floating action
- Boiler (dry contact)
- Pump - 24 V(ac)
- 2 timer channels:
  (in single zone operation, both channels follow Schedule 1)
  - 24 hour, 7 day or 5-1-1 (weekdays, Saturday & Sunday) schedules
    Note: clock display is in 24-hour format only
  - 2 or 4 events per day/group

Inputs

- Mixing supply sensor
- Outdoor sensor
  (not required for setpoint operation)
- Optional external indoor sensor
- Optional heat demand
  (low voltage dry contact)

Installation

Installation of must follow all of HeatLink's instructions and guidelines, including those in the installation instructions.

Related Documents

- 31355 Installation Instructions (L631355D)
- 31355 User Guide (L631355U)
- Component Warranty

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