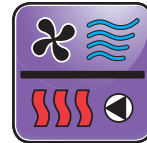


tekmar® Submittal

Universal Reset Control 374



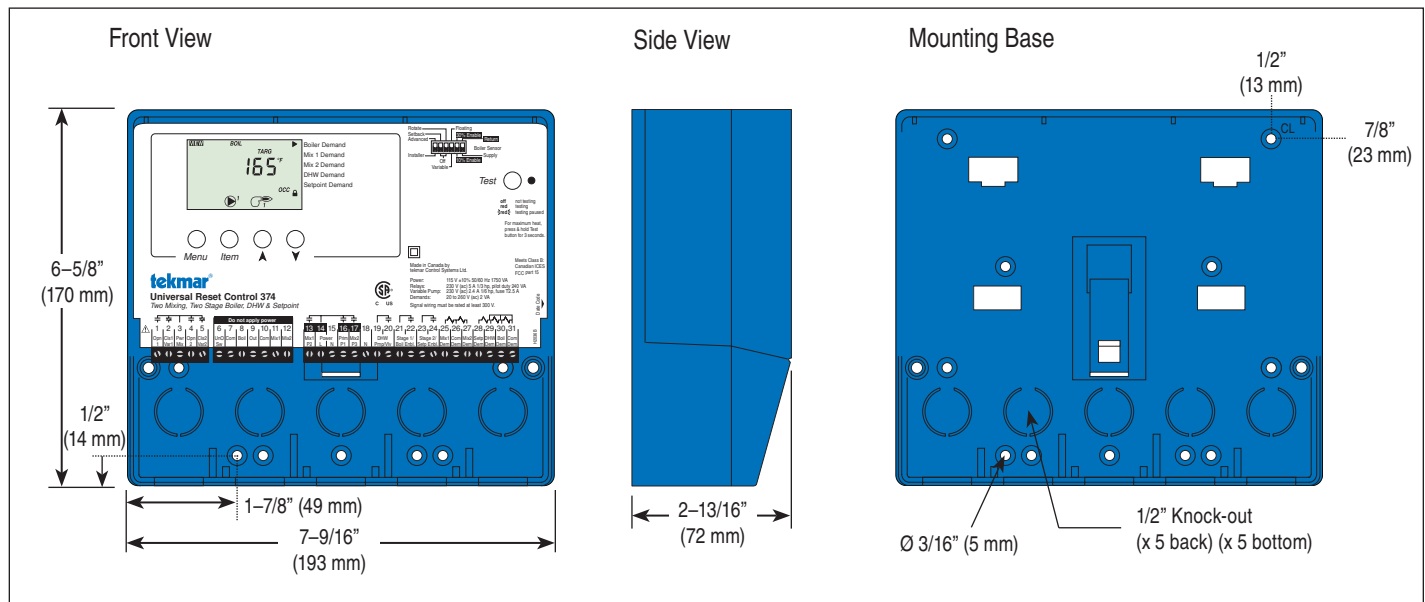
C374

01/11

HVAC Systems Replaces: New

Job _____ Designer _____ Contact _____

The Universal Reset Control 374 is designed to operate all of the mechanical equipment in a residential hydronic heating system. It can be used in applications ranging from a single zone of baseboard with an on/off boiler to multiple fan coils, low temperature staple up zones, low temperature in-slab radiant zones, domestic hot water, and 2 on/off boilers. It regulates up to three space heating water temperatures through Outdoor Reset. It is capable of controlling up to 2 on/off boilers, up to 2 mixing devices (either variable speed pumps or floating action mixing valves), and Domestic Hot Water or setpoint loads.



Specifications

Universal Reset Control 374 Two Mixing, Two Stage Boiler, DHW & Setpoint	
Literature	D374, A374, D070, D001
Control	Microprocessor control. This is not a safety (limit) control
Packaged weight	3.5 lb. (1600 g)
Dimensions	6-5/8" H x 7-9/16" W x 2-13/16" D (170 x 193 x 72 mm)
Enclosure	Blue PVC plastic, NEMA type 1
Approvals	CSA C US, meets Class B: ICES & FCC Part 15
Ambient conditions	Indoor use only, 32 to 122°F (0 to 50°C), RH ≤90% Non-condensing, Altitude <6560 ft. (2000 m), Installation Category II, Pollution Degree 2
Power supply	115 V (ac) ±10%, 50/60 Hz, 1750 VA
Relays	230 V (ac) 5 A, 1/3 hp, pilot duty 240 VA
Variable Pump	230 V (ac) 2.4A 1/6 hp, fuse T2.5 A 250 V
Demands	20 to 260 V (ac) 2 VA
Sensors	NTC thermistor, 10 kΩ @ 77°F (25°C ±0.2°C) β=3892
-Included	Outdoor Sensor 070 and 3 of Universal Sensor 082
-Optional	tekmar type #: 033
Warranty	Limited 3 Year (See D374 for full warranty)

Energy Saving Features

- Outdoor Temperature Reset
- Indoor Temperature Feedback (optional with indoor sensor)
- Warm Weather Shut Down
- Boiler Control
- Automatic Boiler Differential
- Setback input for energy savings

Additional Features

- 3 outdoor reset controlled water temperatures
- Control up to 2 On/Off boilers
- Boiler equal run time rotation
- 2 X variable speed pump control or 2 X floating action mixing control
- Quick setup for easy installation
- User comfort adjustment to increase or decrease building space temperature
- Advanced settings to fine-tune building requirements
- Powered boiler system and mixing system pump outputs
- Equipment Exercising
- DHW pump or valve operation
- Optional DHW priority
- Test sequence to ensure proper operation
- 120 V (ac) power supply
- CSA C US certified (approved to applicable UL standards)

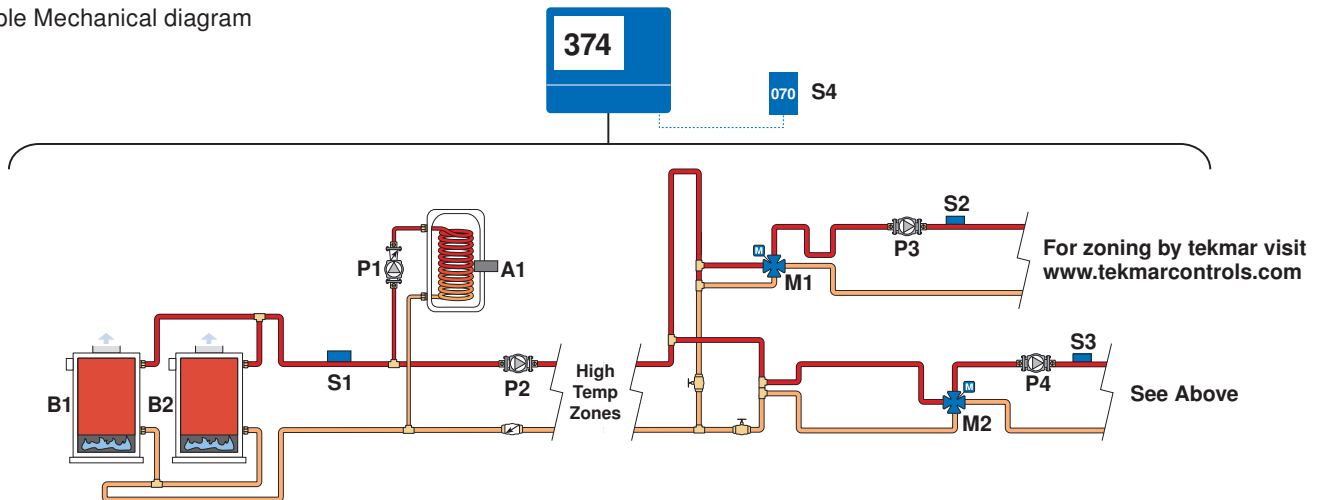
SPECIAL REQUIREMENTS

N / A

Sample Application Drawing

Below is a sample application drawing for this product. This application may include other tekmar products that are required for installation. More sample applications can be found at www.tekmarcontrols.com.

Sample Mechanical diagram



Sample Electrical diagram

Legend

- B1 = Boiler 1
- B2 = Boiler 2
- A1 = DHW Aquastat
- P1 = DHW Pump
- P2 = Boil System Pump
- P3 = Mix 1 System Pump
- P4 = Mix 2 System Pump
- S1 = Boiler Supply Sensor
- S2 = Mix 1 Supply Sensor
- S3 = Mix 2 Supply Sensor
- S4 = Outdoor Sensor
- M1 = 4-Way Mixing Valve & Actuator
- M2 = 4-Way Mixing Valve & Actuator
- D1 = Mix 1 demand
(From thermostat or end switch)
- D2 = Mix 2 demand
(From thermostat or end switch)
- D3 = Boil Demand
(From thermostat or end switch)

