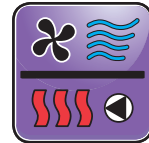


tekmar® Submittal

Mixing Control 365



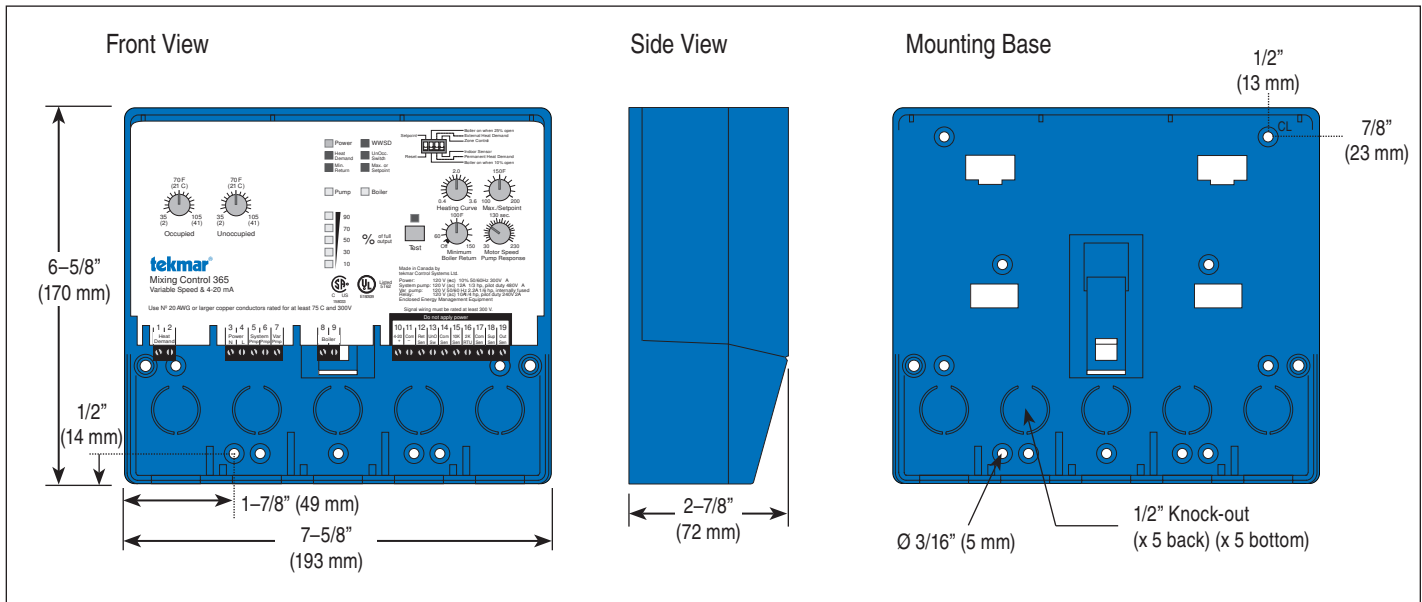
C 365

01/11

HVAC Systems Replaces: New

Job _____ Designer _____ Contact _____

The Mixing Control 365 is designed to operate a mixing device using outdoor reset. It can be used in applications ranging from in-floor radiant to commercial baseboard systems for boiler protection with full reset. This control regulates a single heating water temperature through outdoor reset. It provides mixing by using a 4-20 mA output to control an analog mixing device such as a mixing valve or variable frequency drive, or a variable speed output to a 120 V pump. It can also control the mix system pump.



Specifications

Mixing Control 365 Variable Speed and 4-20mA	
Literature	D 365, A 365's, D 001, D 070
Control	Microprocessor control. This is not a safety (limit) control
Packaged weight	3.3 lb. (1500 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, UL listed, meets ICES & FCC regulations for EMI/RFI.
Ambient conditions	Indoor use only, 32 to 104°F (0 to 40°C), RH ≤90% Non-condensing
Power supply	120 V (ac) ±10% 50/60 Hz 300 VA
System Pump	120 V (ac) 12 A 1/3 hp, pilot duty 480 VA 4 A
Variable Pump	120 V (ac) 50/60 Hz 2.2 A 1/6 hp, internally fused
Boiler Relay	120 V (ac) 10 A 1/4 hp, pilot duty 240 VA 2 A
Demands	24 to 120 V (ac) 2 VA
Sensors	NTC thermistor, 10 kΩ @ 77°F (25°C ±0.2°C) β=3892
-Included	Outdoor Sensor 070 and Universal Sensor 071.
-Optional	tekmar type #: 033, 071, 072, 073, 076, 077, 082, 084
Warranty	Limited 3 Year (See D365 for full warranty)

Energy Saving Features

- Outdoor Temperature Reset
- Indoor Temperature Feedback (optional)
- Warm Weather Shut Down
- Boiler Control
- Automatic Boiler Differential

Additional Features

- 4-20 mA mixing output
- Quick setup for easy installation and programming of control
- User comfort adjustment to increase or decrease building space temperature
- Advanced settings to fine-tune building requirements
- Powered mixing system pump output
- Optional indoor sensor for room air temperature control
- Test sequence to ensure proper component operation
- Setback input for energy savings
- 120 V (ac) power supply
- CSA C US certified (approved to applicable UL standards)

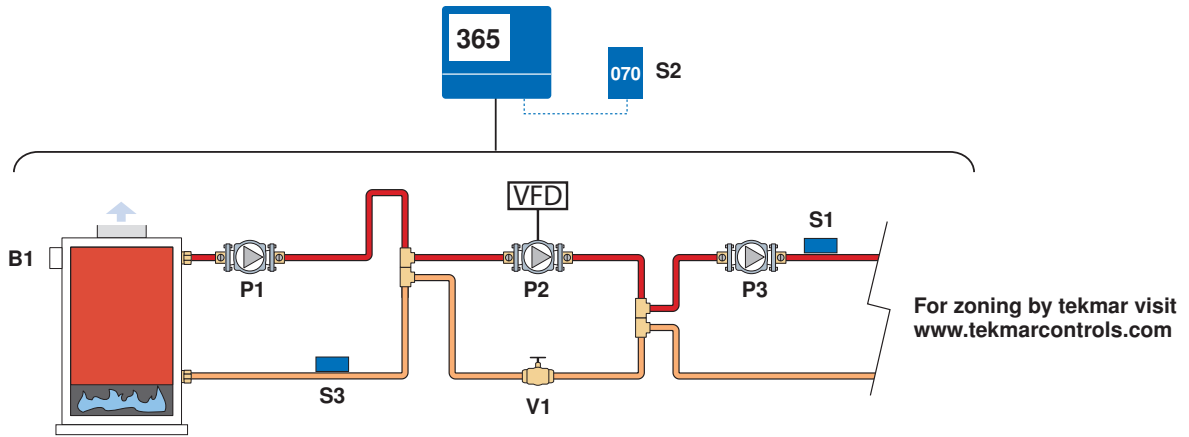
SPECIAL REQUIREMENTS

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.

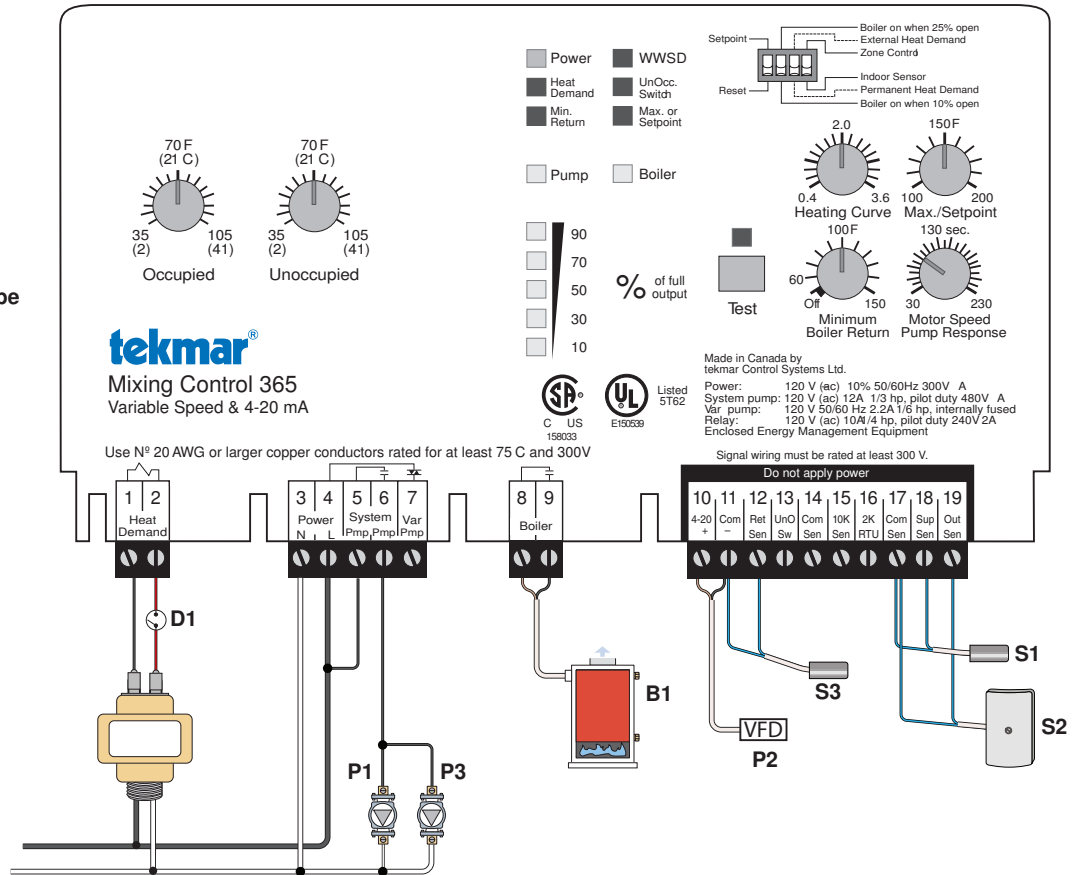
Sample Mechanical diagram



Sample Electrical diagram

Legend

- B1 = Boiler 1
- P1 = Boil System Pump
- P2 = 4-20 mA VFD operated mixing pump
- P3 = Mix System Pump
- S1 = Mix Supply Sensor 071
- S2 = Outdoor Sensor 070
- S3 = Boiler Return Sensor 071 (optional)
- V1 = Balancing Valve
- D1 = Mixing demand (permanent shown, but could be from end switch)



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