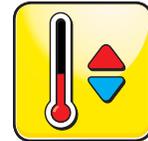


tekmar® Submittal

Mixing Setpoint Control 153



Setpoint

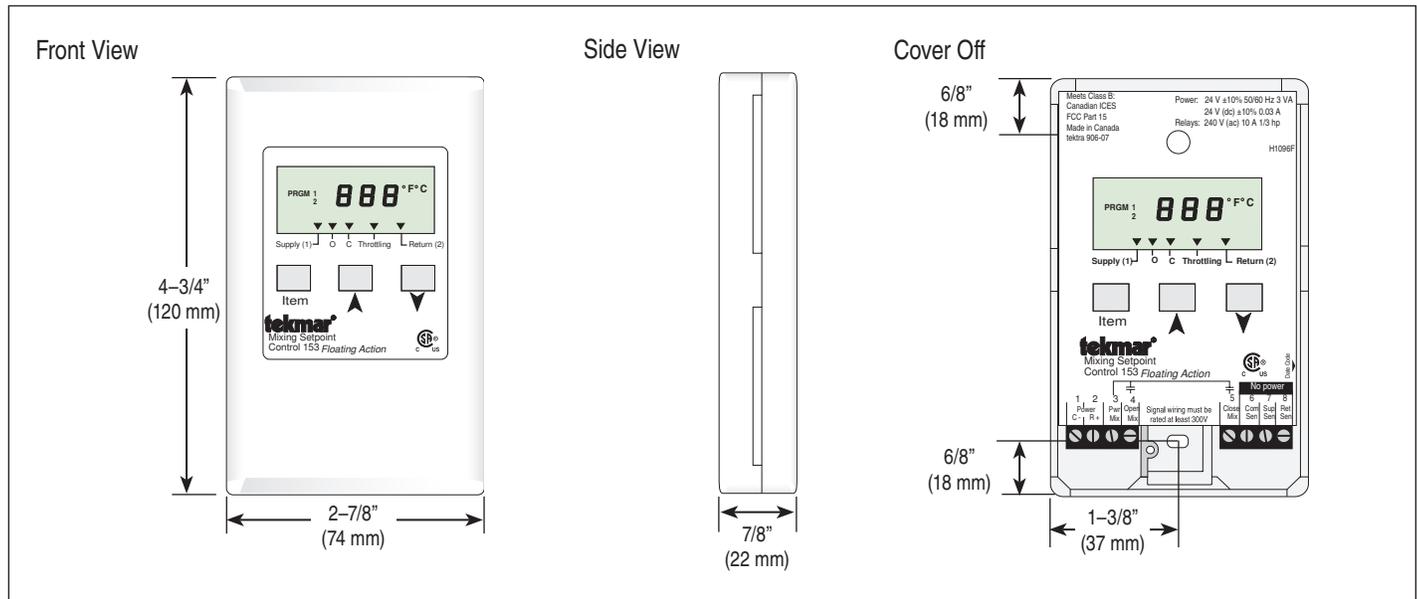
C 153

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Replaces: New

Job _____ Designer _____ Contact _____

The Mixing Setpoint Control 153 is designed to operate a mixing device to maintain a setpoint water temperature. It can be used in applications ranging from boiler protection of cast iron boilers to maintaining setpoint in a heat pump system. This product is capable of operating a floating action motor for a mixing valve or damper through dry contact open and close relays.



Specifications

Mixing Setpoint Control 153 Floating Action	
Literature	D153, A153, D001, D070
Control	Microprocessor control. This is not a safety (limit) control
Packaged weight	1.0 lb (450 g)
Dimensions	4-3/4" H x 2-7/8" W x 7/8" D (120 x 74 x 22 mm)
Enclosure	White PVC plastic, NEMA type 1
Approvals	CSA C US, meets class B: ICES & FCC Part 15
Ambient conditions	Indoor use only, -20 to 120°F (-30 to 50°C), RH ≤90% Non-condensing
Power supply	24 V (ac) ±10%, 50/60 Hz, 3 VA, 24 V (dc) ±10%, 0.03 A
Relays	240 V (ac) 10 A max, 1/3 hp
Sensors	NTC thermistor, 10 kΩ @ 77°F (25°C ±0.2°C) β=3892
-Included	Universal Sensor 071
-Optional	tekmar type #: 070, 071, 072, 073, 076, 077, 078, 079, 082, 083, 084
Programmed settings	Ten year memory backup
Control accuracy	±0.5°F (±0.3°C) with up to 500 ft. (150 m) of 18 AWG wire to sensors
Temperature display	-85 to 302°F (-65 to 150°C)
Supply (1) setpoint	-40 to 239°F (-40 to 115°C)
Throttling range	16 to 66°F (9 to 37°C)
Boiler return (2)	-40 to 239°F (-40 to 115°C)
Temperature display	Fahrenheit / Celsius
Warranty	Limited 3 Year (See D153 for full warranty)

Features

- Floating action mixing control
- Boiler protection
- Digital display

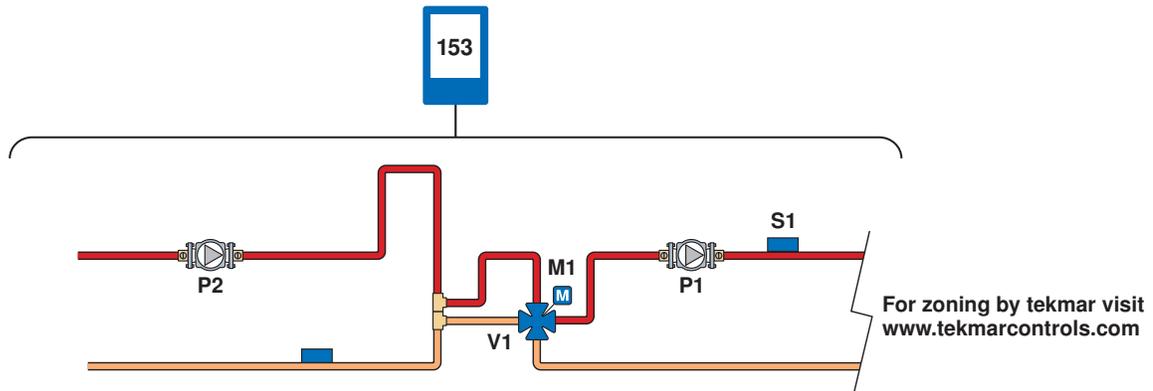
SPECIAL REQUIREMENTS

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:

- S1 = Mix supply temperature**
- S2 = Return Sensor**
- V1 = 4-way mixing valve**
- M1 = Mixing valve actuator**
- P1 = Mix system pump**
(Controlled by others)
- P2 = High Temperature pump**
(Controlled by others)

