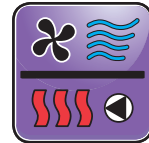


tekmar® Submittal

Mixing Expansion Module 441



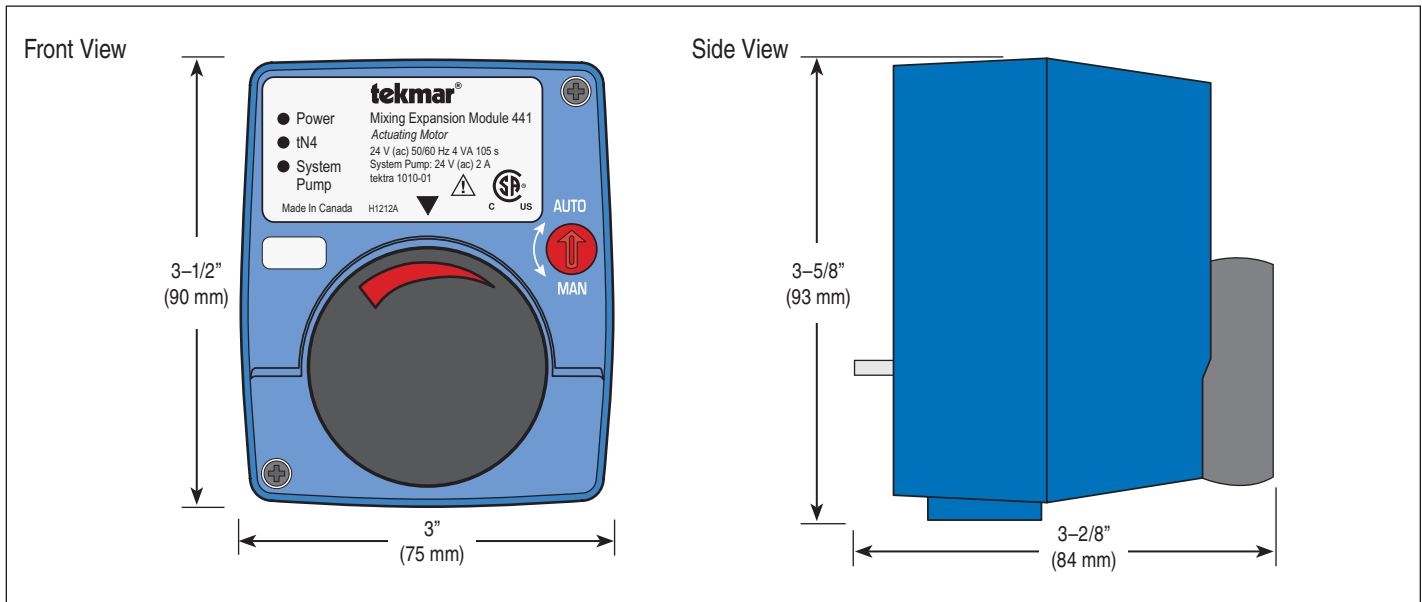
C 441

01/11

HVAC Systems Replaces: New

Job _____ Designer _____ Contact _____

The Mixing Expansion Module 441 is designed to operate any of the tekmar 3-way and 4-way brass mixing valves from type 710 through type 724. It provides 6 N•m (53 in•lbs) of torque over a 90° rotation. This product is controlled through digital communication on tekmarNet® systems.



Specifications

Mixing Expansion Module 441 Actuating Motor	
Literature	D441, W441, J441, D070
Control	Microprocessor control. This is not a safety (limit) control
Packaged weight	1.5 lb. (680 g)
Dimensions	3-1/2" H x 3" W x 3-1/2" D (90 x 75 x 90 mm)
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 ≤92% to 104°F (40°C), and 50% above 104°F (40°C), Altitude <9840 ft. (3000 m), Pollution Degree 2
Power supply	24 V (ac), 50/60 Hz, 4 VA
Control signal	tN4 Bus
System pump	30 V (ac) 2 A
Angle of rotation	90° rotation, non-adjustable
Running time	105 seconds (60 Hz), 126 seconds (50 Hz)
Maximum torque	6 N•m (53 in•lb)
Sensors	NTC thermistor, 10 kΩ @ 77°F (25°C ±0.2°C) β=3892
-Included	Universal Sensor 082
Other - Included	2 of anti-rotation stops 1 of coupler with white arrow 1 of coupler with red arrow 1 of hand wheel with red stripe
Warranty	Limited 3 Year (See D441 for full warranty)

Features

- tekmarNet® 4 compatible
- Floating action mixing control
- System pump output (24 V (ac))
- CSA C US certified for use in USA and Canada

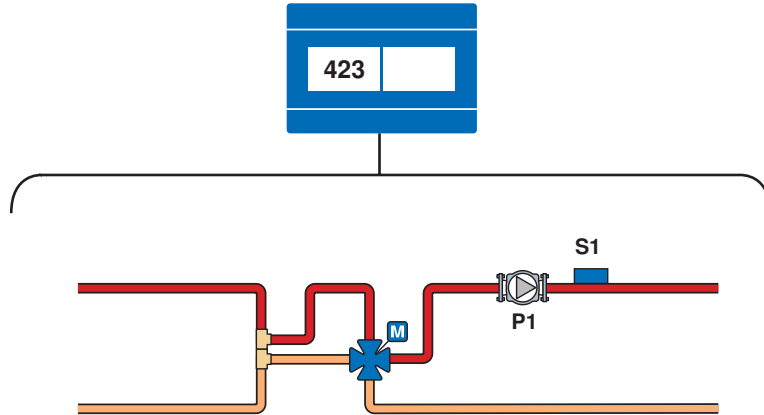
SPECIAL REQUIREMENTS

Requires tekmarNet® system control with a mix bus (422 or 423). Designed for use with tekmarNet® thermostats.

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

P1 = Mix System Pump
 R1 = tekmar Relay 003
 S1 = Mix Sensor

