# **tekmar**<sup>®</sup> Submittal

## **Snow Detector & Melting Control 664**



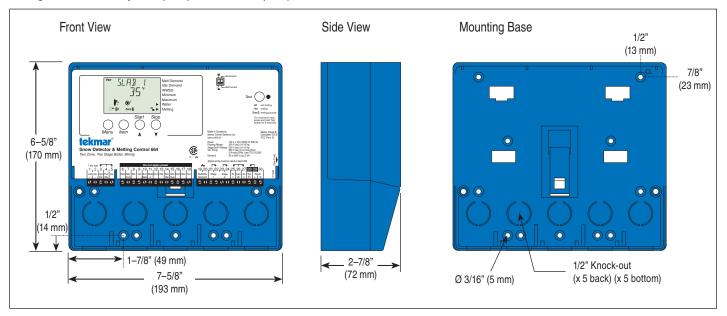


**Snow Melting** 

Replaces: New

lob	Designer	Contact
	Designer	

The Snow Detector & Melting Control 664 is designed to operate mechanical equipment to melt snow off of up to 2 outdoor slabs. It can be used in hydronic snow melting applications consisting of up to 2 zones and 2 boilers where each zone can operate at an independent temperature. This product uses a tekmar snow/ice detection sensor in order to automatically melt snow in a priority sequence while protecting the boiler plant with a mixing device. It is capable of controlling up to 2 boilers, a variable speed or modulating (4-20 mA) mixing device, a mix system pump, and 2 zone pumps.



#### **Specifications**

Snow Detector & Melting Control 664 Two Zone, Two Stage Boiler, Mixing			
Literature	D664, A664, U664, D001, D070, E021		
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-		
Ambient conditions	condensing		
Power supply	115 V (ac) ±10%, 50/60 Hz, 600 VA		
Floating relays	230 V (ac) 5 A, 1/6 hp		
Stage/Zn/P1 relays	230 V (ac) 5 A, 1/3 hp		
Var. pump	230 V (ac) 2.4 A max (FLA) 5 A max (LRA), 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 #: 039, 040, 072, 073, 090, 091, 094, 741		
Warranty	Limited 3 Year (See D664 for full warranty)		

#### Features

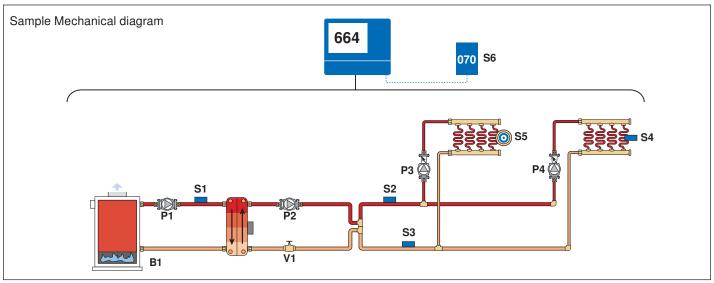
- Automatic snow detection and melt control (with 090 Sensor)
- · Control up to 2 zones
- · Control up to 2 boilers
- Slab temperature control
- Mixing control (floating, variable speed, or proportional)
- Temporary Idle
- Optional priority zoning operation
- Slab protection for the snow melting system
- Boiler Protection
- Manual Override
- Warm Weather Shut Down
- · Cold Weather Cut Out
- · Remote display and adjustment capabilities
- Test sequence to ensure proper component operation
- Equipment Exercising
- CSA C US certified (approved to applicable UL standards)

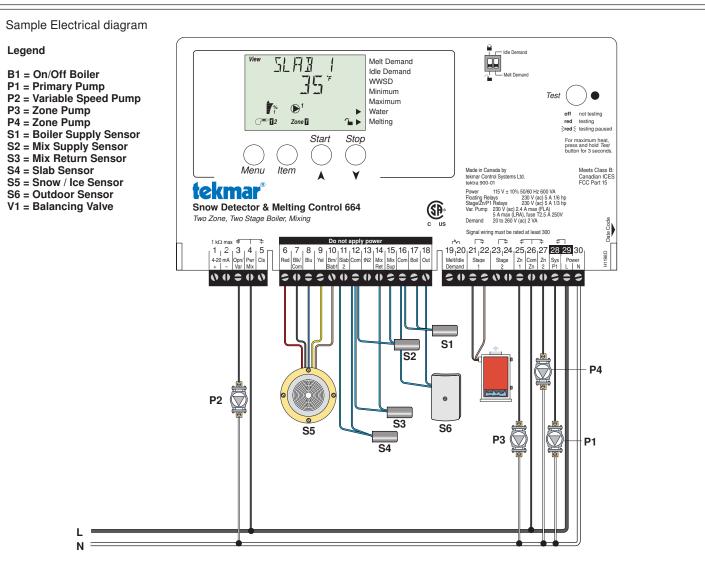
#### SPECIAL REQUIREMENTS

An 090 Snow/Ice Sensor or Slab Sensor.

### **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.







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