

# tekmar® Submittal

## Snow Detector & Melting Control 667



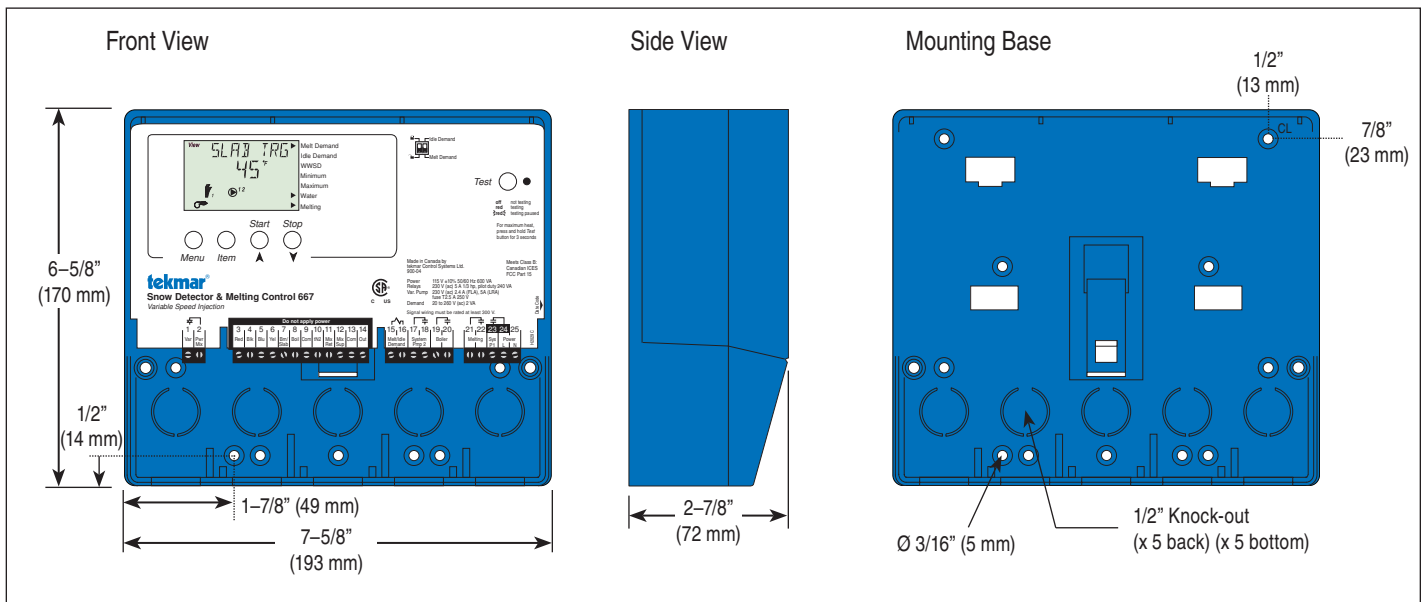
**C 667**

01/11

Snow Melting Replaces: New

Job \_\_\_\_\_ Designer \_\_\_\_\_ Contact \_\_\_\_\_

The Snow Detector & Melting Control 667 is designed to operate mechanical equipment to melt snow off an outdoor slab. It can be used in hydronic snow melting applications with one boiler with mixing. This product uses a tekmar snow/ice detection sensor in order to automatically melt snow while protecting the boiler and slab with mixing. It is capable of controlling 1 on/off boiler, a variable speed injection pump for mixing, a boiler pump, and a mix system pump.



### Specifications

Snow Detector & Melting Control 667 Variable Speed Injection	
Literature	D667, A667, U667, D001, D070
Control	Microprocessor control. This is not a safety (limit) control
Packaged weight	3.1 lb. (1400 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 104°F (0 to 40°C), RH ≤90% Non-condensing
Power supply	115 V (ac) ±10%, 50/60 Hz, 600 VA
Relays	230 V (ac) 5 A, 1/3 hp
Variable pump	230 V (ac) 2.4 A (FLA), 5 A (LRA), fuse T2.5 A 250 V
Demand	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, 082, 090, 091, 094
Warranty	Limited 3 Year (See D667 for full warranty)

### Features

- Automatic snow detection and melt control (090 Sensor)
- Slab temperature control
- Mixing Control (Variable Speed)
- Temporary Idle
- Slab protection for the snow melting system
- Boiler control
- 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)

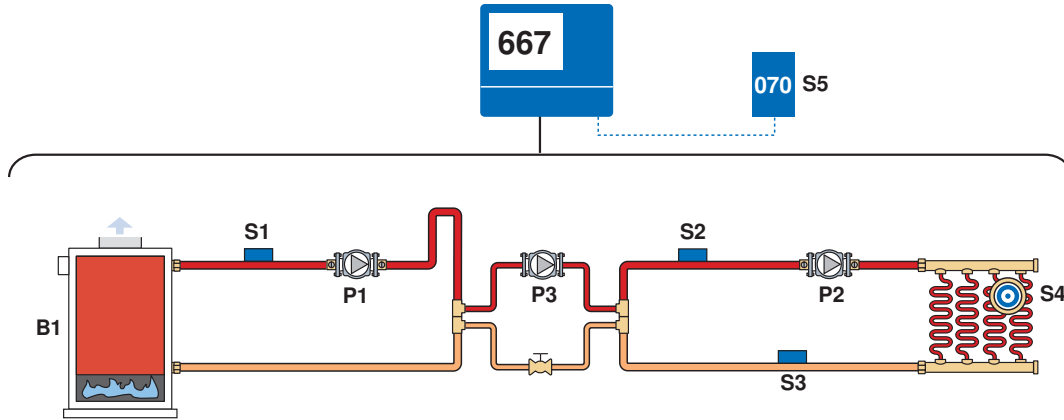
### SPECIAL REQUIREMENTS

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](http://www.tekmarcontrols.com).

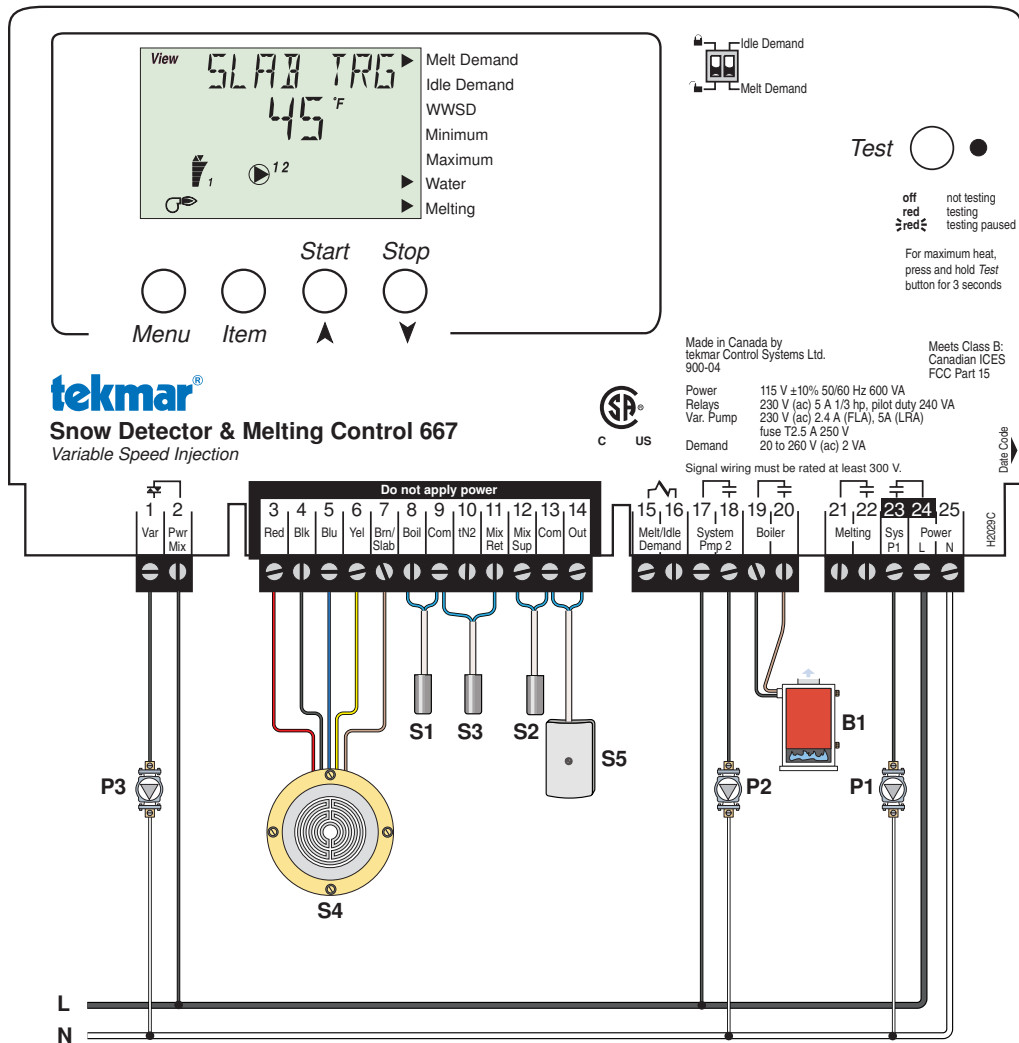
Sample Mechanical diagram



Sample Electrical diagram

### Legend

- B1 = On/Off Boiler
- P1 = Boiler Pump
- P2 = Mix System Pump
- P3 = Variable Speed Pump
- S1 = Boiler Sensor
- S2 = Mix Supply Sensor
- S3 = Mix Return Sensor
- S4 = Snow Sensor
- S5 = Outdoor Sensor



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