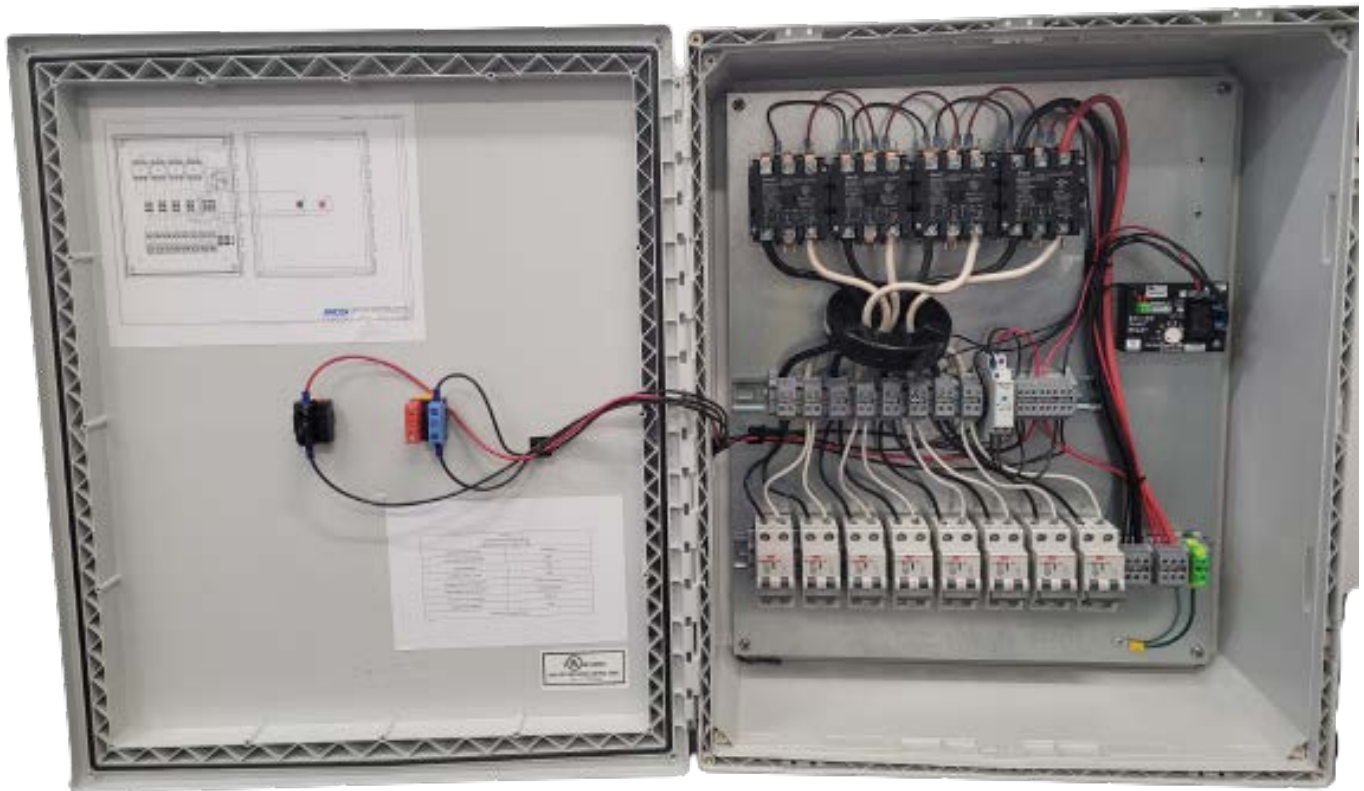




The world's **best-selling** electric floor heating brand™

REV2208.1

WSM-200 Instruction Manual



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Product Description

The WSM-200 panel is a versatile panel to switch loads from Snow Melting and Roof De-icing applications.

It can be used by itself with the integrated timer module or connected to a third-party sensor mounted outside.

Enclosure	NEMA 1 for indoor mounting
Relays	Four (4) 240V/60A Relays
Amperage	MAX load bearing of 240A/240V single phase power.
Approvals	UL-approved components assembled in UL 508A facility.

Product Specifications

The WSM-200 is intended to operate Warmup's WSM and WSMM snow melting cables and mats in in-ground snow melting applications. The device must be mounted indoors. The WSM200 is currently designed to operate in-ground snow melting systems and is not yet calibrated to operate roof melting applications.

While it can perform that function, it is not yet updated with the specific requirements of such applications (run-off melting, etc).

The WSM-200 is specifically designed to work with the wattage output of cables manufactured by Warmup Inc / Warmup PLC. Warmup makes no guarantees as to its suitability when used with non-Warmup systems.

The WSM-200 controller has four (4) - 240VAC/60A contactor relays.

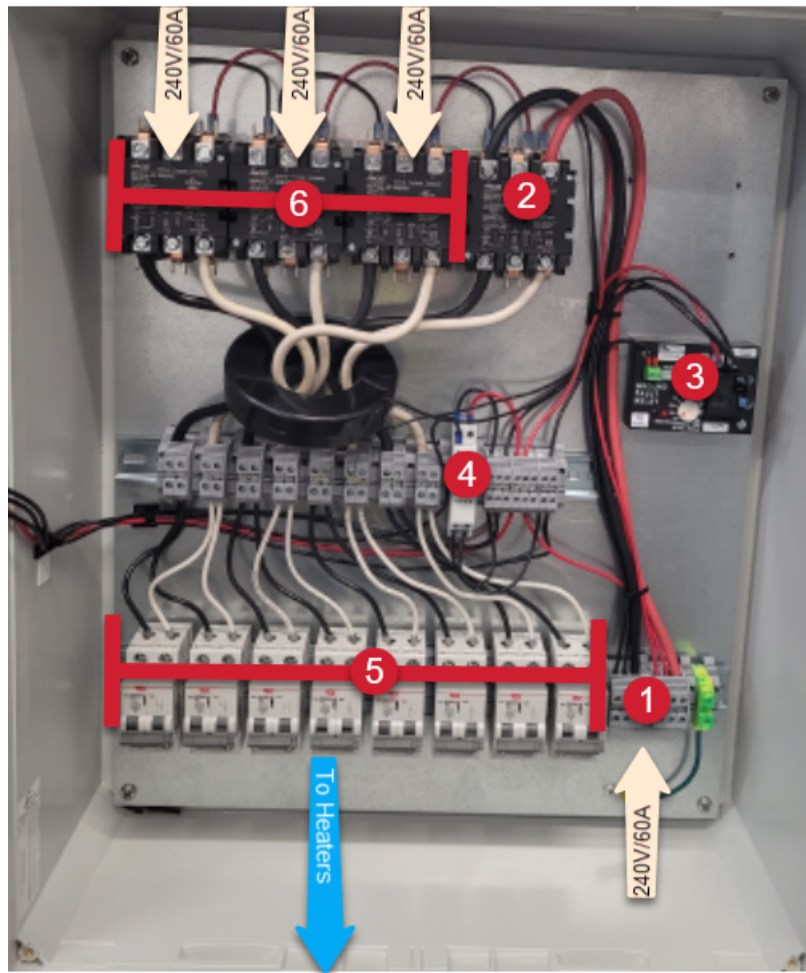
One (1) contactor relay requires a 240VAC/60A dedicated inbound circuit (see Figure 1, #1 & 2). This contactor relay will supply power to the Ground Fault Relay, and the Manual Timer (see Figure 1, #3 & 4).

There are three (3) additional contactor relays to accommodate larger loads. Each of the optional relays require a 240VAC/60A dedicated inbound circuit (see Figure 1, #6).

There are eight (8) outbound GFPE 240VAC/30A breakers two (2) per contactor relay (see Figure 1, #5) supplying the heater(s).

See page wiring diagram on page 6.

Figure 1



1. Required: 1 - 240VAC/60A Dedicated Inbound Circuit
2. Required: Contactor Relay
3. Ground Fault Relay
4. Manual Timer
5. GFPE Breakers (8): 240VAC/30A (each breaker)
6. Optional Contactor Relays: 3 - 240VAC/60A



You can activate your WSM-200 manually by pressing the on/off button on the door of the enclosure. This is accessible to the user from the outside of the panel.

However, at initial set-up, the internal timer should be set up with the desired number of hours for the timer to function upon being triggered by the ON/OFF button.

The timer can be set from 1 to 99 hours and Warmup defaults the timer at 1 period of 10 hours. We do not recommend less than 5 hours for proper snow melting results. This can be changed at any point by the user.

When changing the settings of the timer, you must first disconnect power to the whole unit, then change settings, then turn power back on. This is not only for safety reasons, but also because the timer requires a power-cycle reset when its settings are changed.

The manual operation of the system can serve as an override to the WiFi activation. This means that at any point, the user can activate the system manually without interrupting the regular operation of the system using the WiFi signal and the app's parameters.

The breaker must be turned off before adjusting the timer settings.

T1-K KLEMSAN TIMER SETTINGS



1. Set the top orange dial to 10h
2. Set the middle orange dial to the number of "run time" hours.
 - a. 1 Hour = 0.1
 - b. 2 Hours = 0.2
 - c. 3 Hours = 0.3
 - d. 4 Hours = 0.4
 - e. 5 Hours = 0.5
 - f. 6 Hours = 0.6
 - g. 7 Hours = 0.7
 - h. 8 Hours = 0.8
 - i. 9 Hours = 0.9
 - j. 10 Hours = 1.0
3. Set the bottom orange dial to Mode "D"

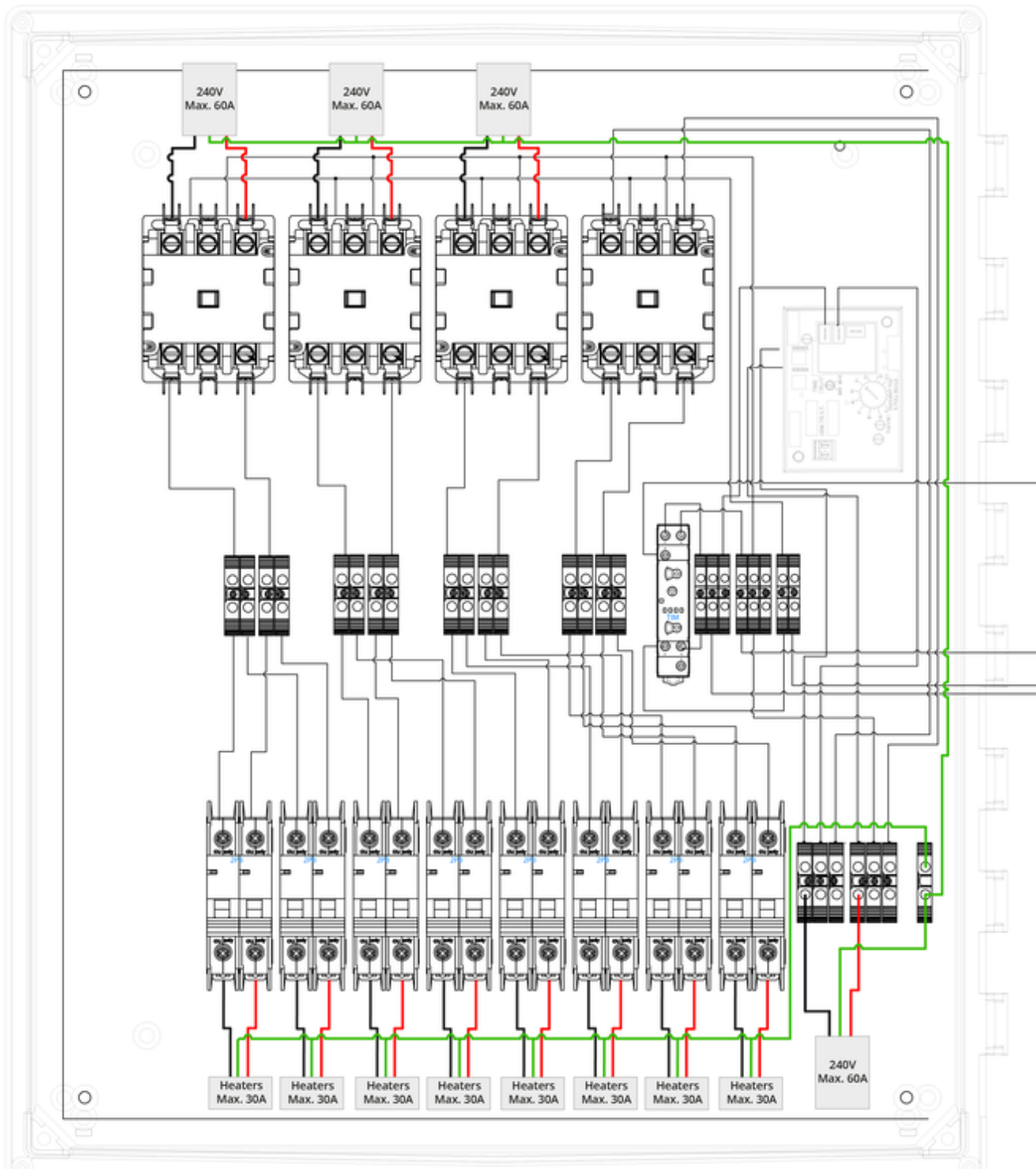
80.1 FINDER TIMER SETTINGS



1. Set the top gray dial to 24h
2. Set the middle blue dial to the number of "run time" hours.
3. Set the bottom white dial to "BE" mode

Example: Run Time = 5 Hours

1. Set Top Dial to 24h
2. Set Middle Dial to 5



SUPPORT

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