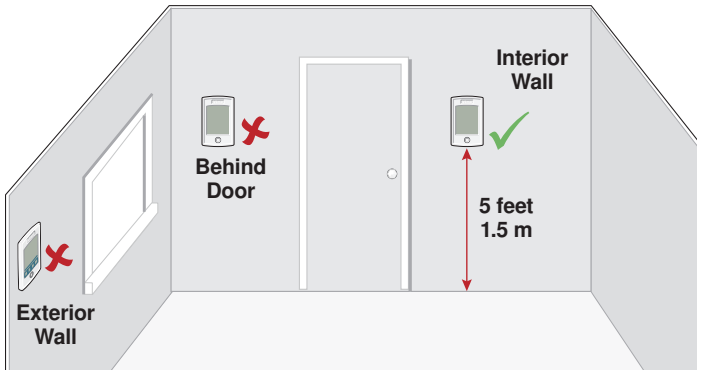
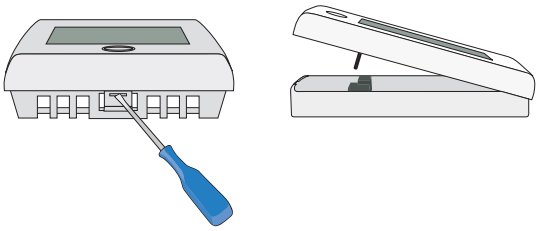
Quick Set-up Guide

Snow Melting Control 654

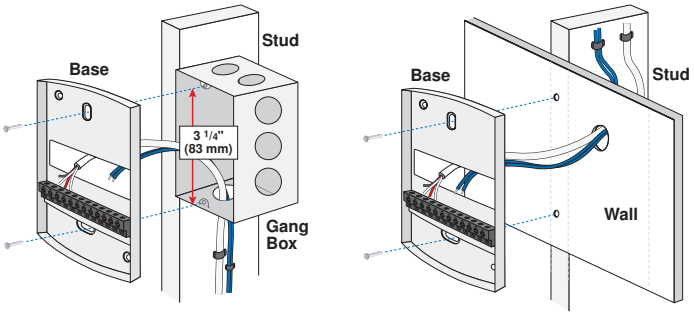
1. Location



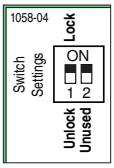
2. Remove Mounting Base



3. Install Mounting Base



4. Switch Settings

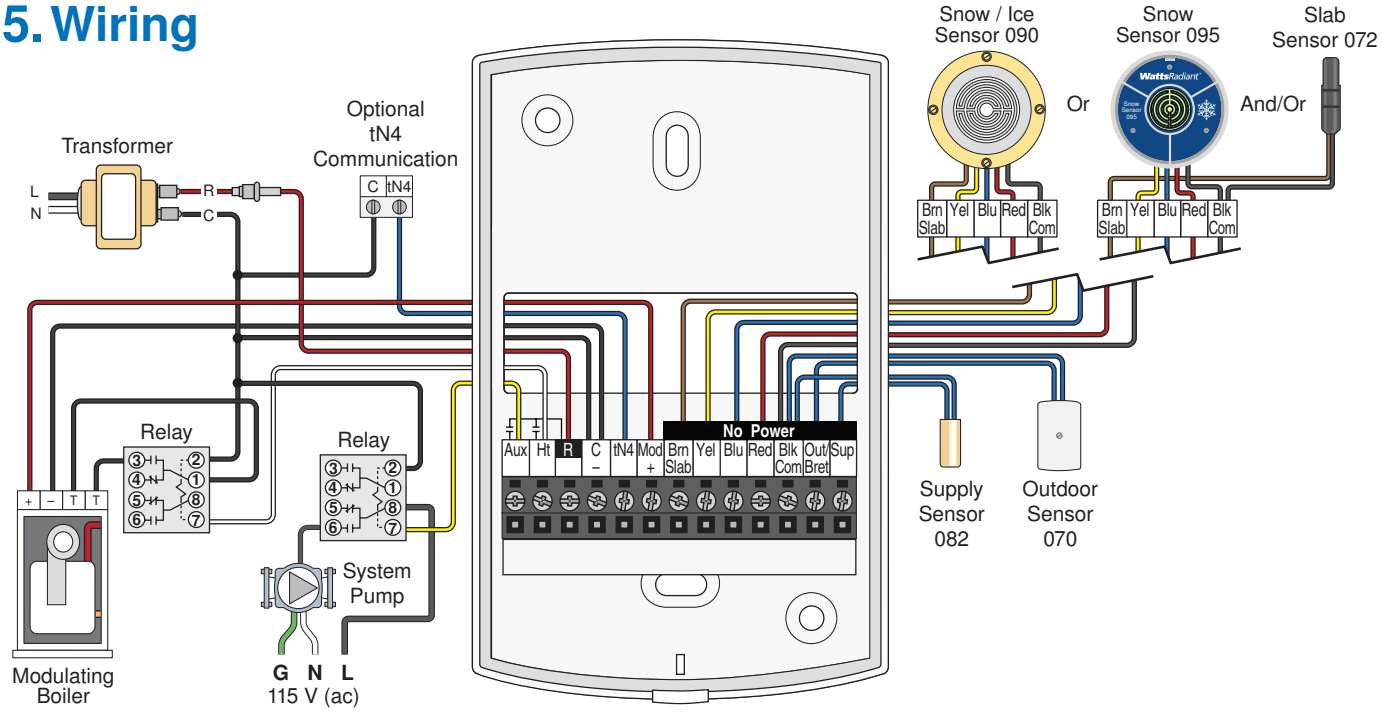


Back of Control

LOCK ACCESS LEVEL
The control is locally locked and the access level cannot be changed. Set to Lock when installation has been completed.

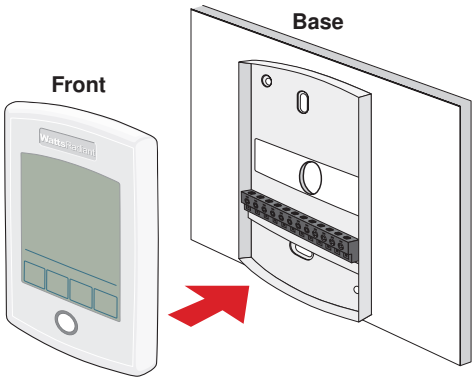
UNLOCK ACCESS LEVEL
The control is unlocked and the access level may be changed. Go to the Toolbox menu to change the access level. Set to Unlock during the installation process.

5. Wiring

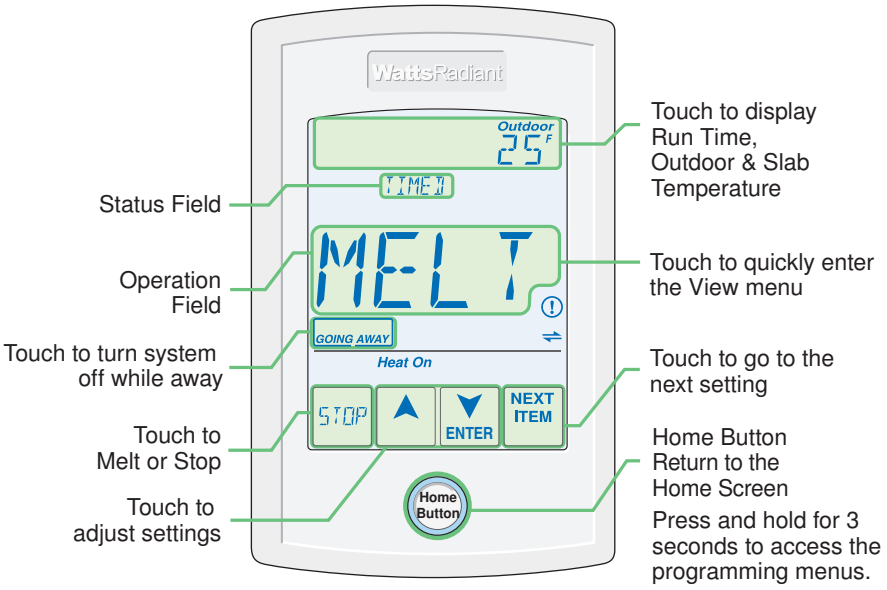


© 2013 Watts Radiant

6. Install the Control



7. User Interface



8. Critical Settings

The System Menu provides settings on how to configure and operate the mechanical equipment.

Item Field	Description
APP MODE	**APPLICATION MODE** Select the control application mode. PWM = Hydronic Pulse Width Modulation. BOIL = Hydronic boiler heats snow melting system. MIX = Hydronic mixing valve or injection pump heats snow melting system. ELEC = Electric snow melt. 090 = Tandem Snow/ Ice Detection Default = PWM
SNOW/ICE SENSOR	**SNOW / ICE SENSOR** Select if a Snow / Ice Sensor 090 or Snow Sensor 095 is installed. Default = 090
SLAB SENSOR	**SLAB SENSOR** Select if a Slab Sensor 072 is installed to measure the slab temperature. Default = ON
PROTECT SLAB	**SLAB PROTECTION** Select if the slab should be protected from large temperature differentials to avoid cracking the concrete due to high tensile stress. Default = ON

Item Field	Description
OUT/BRET SENSOR	**OUTDOOR/BOILER RETURN SENSOR** Select if the Out/Bret wiring terminal is connected to an outdoor sensor or a boiler return sensor. Default = OUT
ECONOMELT	**ECONOMELT** EconoMelt allows the user to mechanically remove snow then manually start the system to melt the thin snow layer or ice. Default = OFF
tN4 SYS PUMP	**tekmarNet® SYSTEM PUMP** Select if the system pump located on the tekmarNet® System Control should operate when the snow melt zone is heating. Conditions: Application Mode is set to PWM, Boil or Mix and Boiler Type is set to CTRL (tN4 control). Default = ON
AUXILIARY RELAY	**AUXILIARY RELAY** Select if the auxiliary relay should function as system pump or as an alert. Default = SYS
MAX MELT DAYS	**MAXIMUM MELT TIME** Select to limit the amount of melting run time. Default = 3.0 days

WattsRadiant™

A Watts Water Technologies Company

USA: Springfield, MO • Tel. (800) 276-2419 • Fax: (417) 864-8161 • www.wattsradiant.com
Canada: Burlington, ONT. • Tel. (905) 332-4090 • Fax: (905) 332-7068 • www.watts.ca

© 2013 Watts Radiant