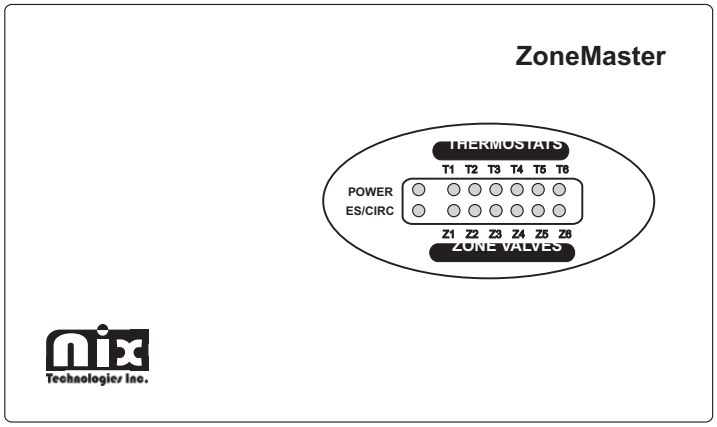
ZONEMASTER SZ-V4, SZ-V6 ZONE VALVE CONTROLS FOR HYDRONIC HEATING SYSTEM



The ZoneMaster Series Zone Valve Controls simplify the field wiring and yet control up to six zone valves, a circulator and boiler control in a multi-zone hydronic heating system. The contractor friendly Printed Circuit Board eliminates the problem caused by incorrect wiring and saves hours of installation time. There would be no more "messy" look of conventional zone valve installations.

FEATURES:

- *** Status indicator lights visible through the front cover.**
- *** Field selectable priority zone.**
- *** Unlimited zone expansion. The priority zone of the MASTER panel will turn off all other zones of slave panels**
- ***Time saving Screwless type terminal for thermostat and zone valve connections.**
- *** Works with 2, 3, 4 Wire type zone valves.**
- *** Works with 2, 3 Wire type thermostats.**
- *** Pre-wired terminals for circulator**
- *** Isolated End Switch.**
- *** SPDT Priority zone relay switch (N/O Com N/C). Capable of prioritizing DHW pump in a 2-pump system.**
- *** SZ-V4 controls up to four zone valves.**
- *** SZ-V6 controls up to six zone valves.**
- *** Versatile design for use with outdoor reset control.**
- *** R & C (common) 24VAC transformer terminals.**
- *** Field replaceable fuse protection.**
- *** 40VA/60VA replaceable transformer.**
- *** CSA/NRTL certified.**
- *** 3 Year Guarantee.**

L.E.D. SYSTEM STATUS INDICATION LIGHTS:

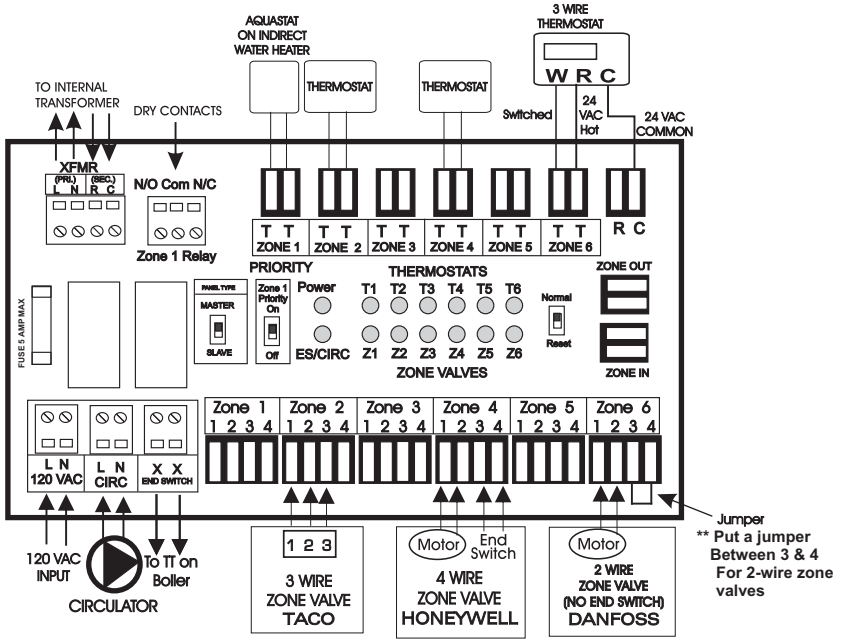
YELLOW light (T1-T6) indicates thermostat calling for heat of individual zone and zone valve is energized.

RED light(Z1-Z6) indicates zone valve (with an end switch) is fully opened.

GREEN light(ES/CIRC) indicates the Circulator (CIRC) is actuated and the isolated End Switch (X-X) is closed.

GREEN light (Power) indicates the presence of power supply.

WIRING DIAGRAM



SPECIFICATIONS

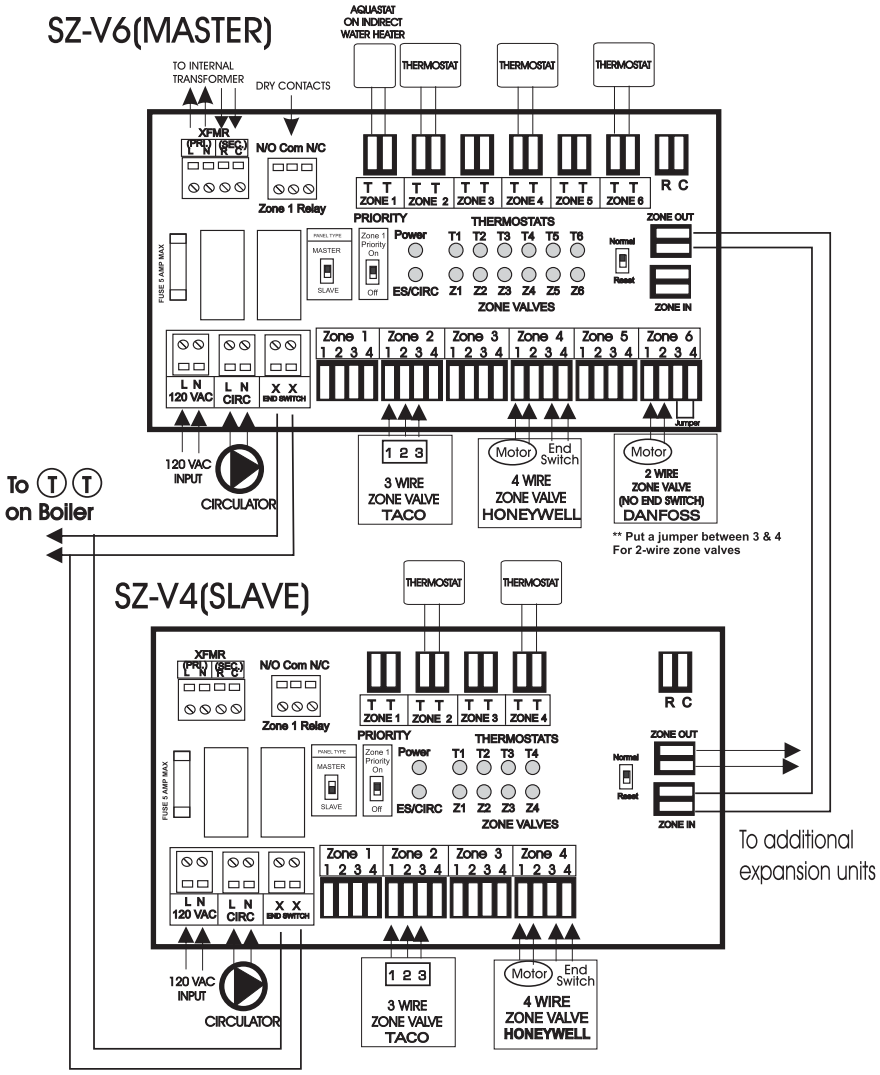
MODEL	TRANSFORMER OUTPUT AT 24VAC	NUMBER OF ZONES	CIRCULATOR(END) SWITCH RATING	DIMENSION
SZ-V4	40 VA	4	1/3 HP @120VAC, 5 A	10"X6"X3"
SZ-V6	60 VA	6	1/3 HP @120VAC, 5 A	10"X6"X3"

OPERATION:

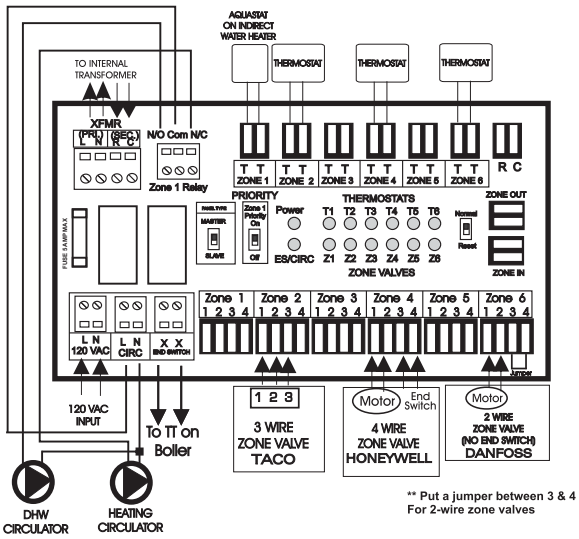
When any zone (thermostat) calls for heat, the corresponding yellow light turns on and zone valve is energized. When zone valve is fully open, the red light turns on and End switch (X X) is closed (to start boiler) while 120 V power is supplied to start the circulator through “CIRC” terminal as the green light turns on.
IMPORTANT: To use the control as a stand alone unit, make sure to switch the unit to “MASTER” mode.

PRIORITY OPERATION	When zone 1 is switched to the priority setting and is called for heat, all other zones will stop operation until zone 1 is satisfied. When zone 1 is not switched to priority, all zones operate independently.
NORMAL MODE **RESET MODE**	End Switch will be energized if any zone in operation. End Switch will be energized only if zone 1 in operation.
ZONE EXPANSION	SZ-V6 can be expanded to unlimited number of zones by connecting “Zone Out” of “Master” unit to “Zone In” of “Slave” unit. More units can be connected in the similar manner. Use the Master/Slave Switch to define the unit as “Master” or “Slave”. The priority zone of the “Master” unit will turn off all other zones of the “Slave” units.

TYPICAL APPLICATION FOR 9 (RADIANT FLOOR) HEATING ZONES, PRIORITY FOR DHW, 2 CIRCULATORS AND BOILER CONTROL WITH SZ-V6 (MASTER) AND SZ-V4(SLAVE).



TYPICAL WIRING DIAGRAM OF ZONEMASTER SZ-V6 FOR PRIORITIZING DHW CIRCULATOR IN A TWO PUMP SYSTEM



In this case, DHW circulator is being prioritized. When any heating zone (zone 2 - 6) calls for heat, heating circulator is actuated. However, when zone 1 (DHW) calls for heat, DHW circulator is actuated and heating circulator is turned off.

Nix Technologies Inc.