



Zoning — Thermostats																					
	'Classic' Series						'Performance' Series							'Designer' Series							
	507	508	509	510	511	512	527	528	529	530	537	538	540	541	542	543	544	545	546	552	
tekmarNet <sup>®</sup> Communication	—	—	—	—	—	—	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
4 or 2 Wire tekmarNet <sup>®</sup> Connection	—	—	—	—	—	—	2	2	2	2	4	4	4	4	4	4	4	4	4	2 or 4	
Heat Stages	1	1	1	1	1	2	1	1	2	1	1	1	1	1	1	2	1	2	2	1	
Cool Stages	—	—	—	—	—	1	—	—	—	1	—	—	1	—	—	—	1	1	2	—	
Fan Stages	—	—	—	—	—	—	—	—	—	1	—	—	1	—	—	—	1	1	2	—	
Auxiliary Sensor Inputs	—	1	1	2	2	2	—	1	1	—	—	1	—	1	2	2	2	2	3	2	
Stand Alone Operation	●	●	●	●	●	●	—	—	—	—	●	●	●	●	●	●	●	●	●	●	
Aux Outdoor Sensor	—	●	●	●	●	●	—	●	●	—	—	●	—	●	●	●	●	●	●	●	
Aux Floor Sensor	—	●	●	●	●	●	—	●	●	—	—	●	—	●	●	●	●	●	●	●	
Aux Room Sensor	—	●	●	●	●	●	—	—	—	—	—	—	—	●	●	●	●	●	●	●	
Aux Coil or Duct Sensor	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	●	●	—	
<b>Heating</b>																					
Floor Warming (Min/Max Limits)	—	●	●	●	●	●	—	●	●	—	—	●	—	●	●	●	●	●	●	●	
Zone Heating Min/Max Limits	—	—	—	—	—	—	●	●	●	●	●	●	●	—	—	—	—	—	—	●	
Zone Synchronization	—	—	—	—	—	—	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
Zone Post Purge	—	—	—	—	—	—	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
Auto Heating Cycle	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
Adjustable Heat Cycle Length	●	●	●	●	●	●	—	—	—	—	—	—	—	●	●	●	●	●	●	●	
Adjustable Heat Terminal	—	—	—	—	—	—	—	—	—	●	—	—	●	●	●	●	●	●	●	●	
Radiant Base Load	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	●	●	●	●	
Warm Weather Shut Down	—	—	—	—	—	—	—	—	—	—	—	—	—	—	●	●	●	●	●	●	
<b>Cooling &amp; Ventilation</b>																					
Auto Heat-Cool Switchover	—	—	—	—	—	●	—	—	—	●	—	—	●	—	—	—	●	●	●	—	
Cool Group Master	—	—	—	—	—	—	—	—	—	●	—	—	●	—	—	—	—	●	●	—	
Cool Group Member	—	—	—	—	—	—	●	●	●	—	●	●	—	●	●	●	—	●	●	●	
Radiant Floor Cooling Member	—	—	—	—	—	—	●	●	●	—	●	●	—	—	—	—	—	—	—	●	
Cool Min On and Off Times	—	—	—	—	—	●	—	—	—	●	—	—	●	—	—	—	●	●	●	—	
Auto/Adjustable Cooling Cycle	—	—	—	—	—	●	—	—	—	●	—	—	●	—	—	—	●	●	●	—	
Cooling Interlock	—	—	—	—	—	●	—	—	—	●	—	—	●	—	—	—	●	●	●	—	
Ventilation Fan / ERV / HRV	—	—	—	—	—	—	—	—	—	●	—	—	●	—	—	—	●	●	●	—	
Fan Coil Heating Min & Cooling Max	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	●	●	—	
Heat/Cool Priority	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	●	●	—	
Cold Weather Shut Down	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	●	●	—	
<b>Setback</b>																					
Optimum Start	—	—	—	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
Internal Setback Schedule	—	—	—	●	●	●	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Schedule Master	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Schedule Member	—	—	—	—	—	—	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
Scenes	—	—	—	—	—	—	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
Away Override	—	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
Adjustable Away Temperature	—	—	—	—	—	—	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
Temporary Hold	—	—	—	●	●	●	—	—	—	—	—	—	—	●	●	●	●	●	●	●	
Daylight Savings Time	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Separate Heat & Cool Schedules	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
<b>Miscellaneous</b>																					
Monitor Room Hi's & Lo's	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Monitor Room Hot & Cold Alerts	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Monitor Relay On Times	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Exercise	—	—	—	—	—	—	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
Copy Settings Feature	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	



**Zoning — Wiring Centers, Zone Managers & Expansion Modules**

	'Performance' Series				'Designer' Series								
	313	314	315	316	334	335	336	337	324	325	326		
tekmarNet <sup>®</sup> Communication	●	●	●	●	●	●	●	●	●	●	●	●	●
4 or 2 Wire Thermostat Connection	2	2	4	4	2	4	4	4	2	4	4	4	4
Zone Valves	4	—	6	—	4 or 6	6	—	3+3	4 or 4	6	—	—	—
Zone Pumps	—	4	—	4	4	—	4	—	4	—	—	—	3
Zone Group Pumps	1	—	1	—	1	1	1	2	—	1	1	—	1
Zone Group Pump Delay	●	—	●	—	●	●	—	●	—	●	—	—	—
Cooling Connection	—	—	—	—	●	—	—	—	—	—	—	—	—
Outdoor Sensor Input	●	●	—	—	—	—	—	—	—	—	—	—	—
Power for Reset Module	—	—	—	—	●	●	●	●	—	—	—	—	—
Synchronized End Switch	●	●	●	●	—	—	—	—	—	—	—	—	—
External 24 V (ac) Transformer Required	●	●	●	●	—	—	—	—	—	—	—	—	—
Requires Zone or Power Manager	—	—	—	—	—	—	—	—	—	—	—	—	—



**Selection and Design Notes:**

- When selecting Wiring Centers, Zone Managers or Expansion Modules, ensure that they use the same number of wires as the selected tekmarNet<sup>®</sup> thermostats. Comparable models are available for both 2-wire and 4-wire connections.
- To combine 2-wire and 4-wire tekmarNet<sup>®</sup> products in one system, use tN4 expansion terminals provided by Wiring Centers, Zone Managers and Expansion Modules. These terminals can also be used to add a tekmarNet<sup>®</sup> 4 Timer, User Switch or Setpoint Control to a tekmarNet<sup>®</sup>2 system.
- Connecting 'Classic', non-tekmarNet<sup>®</sup> Thermostats to tekmarNet<sup>®</sup>4 zoning terminals does not provide any communication benefits. These thermostats can only provide a demand signal, and do not share in tekmarNet<sup>®</sup> scenes or schedules, or provide indoor temperature feedback to the system control.
- tekmarNet<sup>®</sup> systems can have a total of 24 zones on each bus. When using a Universal Reset Control 423, up to 4 buses with 24 zones on each can be used, bringing the total to 96 zones.
- The 334 allows for a direct cooling connection. This is ideal for systems where only 2 wires are available between the room where the cooling thermostat (530) is located and the mechanical room.