This is a legacy product document supported by Resideo. It is no longer manufactured

Honeywell

AQ25144B Boiler Reset Zone Synchronizing Control Panel

System commissioning date:	_
Customer:	
Building address:	

INSTALLATION JOB RECORD

INSTRUCTIONS:

Fill in the details of the equipment connected to the control module and the zoning module:

A Low voltage control module wiring

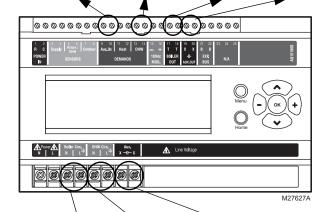
B Low voltage zone thermostats

- Low voltage zone valves with end switches
 Line voltage Boiler pump, DHW pump and AUX output
 Review and set DIP switch settings once DIP switches for the zoning module (AQ25744B) have been set, complete the "Installer
 Settings" diagram by filling in the circles to indicate the DIP switch position set during installation

File this with other installation records for equipment used on this installation.

A. Boiler Controller Module

Terminal #	9-10	13-14	17-18	19-20
Terminal ID	Aux In	DHW	Boiler	Aux Out
Function	Installer defined	DHW demand	Boiler demand	Installer defined
Equipment				
Manufacturer				
Model #				
Serial #				
Date Code				
Notes				



Function	Boiler loop control	DHW loop control	Line voltage-rated Aux device control (installer-defined)
Equipment			
Manufacturer			
Model #			
Power draw (Amps)			

DHW

AUX

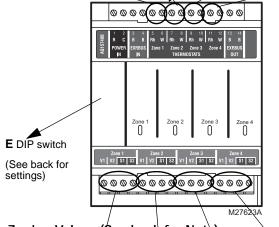
D. Boiler Pump, DHW, and AUX Device

Terminal ID

Notes

B. Zoning Thermostats

Terminal #	5-6	7-8	9-10	11-12
Terminal ID	TH1	TH2	TH3	TH4
Function		Zone cal	I for heat	
Equipment				
Manufacturer				
Model #				
Date Code				
Notes				



C. Zoning Valves (See back for Note)

Terminal ID	Zone 1	Zone 2	Zone 3	Zone 4
Function	Zone control			
Equipment	Valve	Valve	Valve	Valve
Manufacturer				
Model #				
Power draw VA				
Notes				

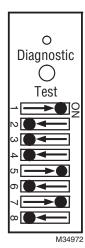


E. Zoning Module DIP Switch Settings

DIP Number	Description					
1	Zone Address					
2	Slide the DIP switch to the right-hand (ON) position to indicate which group of zones this is:					
3	The correct DIP switch settings for each zone module are:					
4	 First Zone (1-4) Module: 1 = ON position; 2, 3, and 4 = OFF position Second Zone (5-8) Module: 2 = ON position; 1, 3, and 4 = OFF position Third Zone (9-12) Module: 3 = ON position; 1, 2, and 4 = OFF position Fourth Zone (13-16) Module: 4 = ON position; 1, 2, and 3 = OFF position 					
	NOTE: For each zone group, there can be only one DIP switch in the right-hand (ON) position.					
5	If set to SYNC, zone synchronization is enabled.If set to NOT, zone synchronization is disabled.					
6	 If zone valves are normally closed (N.C.), set the NC/NO DIP switch to the OFF position. If zone valves are normally open (N.O.), set the NC/NO DIP switch to the ON position. 					
7	If set to Group (ON position) the zone outputs are energized with the AUX pump. ^a If set to - (OFF position), the AUX Pump contacts are not affected by activity on these zones.					
8	 If set to 2-Stg (ON position), then 2-stage operation is activated on thermostat inputs. The zoning module operates as two 2-stage zones or 3 zones (one 2-stage and two 1-stage). If set to 1-Stg (OFF position), then operates as four 1-stage zones. 					

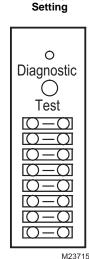
а	The EQUIPMENT SETUP > AUXILIARY I/O > AUX PUMP menu option on the
	AQ251 must be set to "GROUP."





Factory

Setting



Installer

Fill in the circle to indicate position of DIP switch.

NOTE: When wiring zone valves with end switches, note the transformer's VA:

> If low voltage zone valves with end switches are used for zone control, make sure the selected zone valves do not draw more power (VA) than the 38 VA capacity of the AQ10X38 transformer supplied with the AQ251 Control Panel. This integral transformer has enough power to operate 4 motorized zone valves (such as Honeywell V8043E valves or 4 valves using lowamperage draw, heat motor actuators, such as Honeywell MV100 actuators), plus power the electronics of the AQ251's Control Module and up to 16, AQ1000 thermostats. If zone valves with highamperage-draw heat-motor actuators are used (such as Taco 500 series zone valves), additional 24 Vac transformer capacity will need to be wired to the Zoning Module to power the valves. See the AQ251 Series Boiler Reset Control Panels - Product Data document (form 69-1974) for recommended wiring of additional low voltage VA capacity to AQ2000 Series Zoning Modules.



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!\ CAUTION

Equipment Damage Hazard.

Can damage internal circuitry of Zoning Module. The ES1 and ES2 terminals of the AQ1574V4 Zoning Module are powered terminals and must only be connected to a set of dry contacts, such as a zone valve motor's end switch. If power is applied to these contacts (for example, by running line voltage through the zone valves' end switches to bring on a circulator feeding those valves), the internal circuitry of the Zoning Module will be damaged, in which case the warranty for this product will be voided.

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EQUIPMENT SETTINGS

The Installer Menu is used to establish and modify the system's equipment and option settings. These include equipment settings for boiler operation, DHW management, zoning, auxiliary input/output operation, and option settings such as pump/valve exercise, and freeze protection.

Use Table 1 to record the equipment settings for this installation.

- To record the equipment and option settings:

 A Press the Home button to return to the Home Page display.

 B Press and hold the OK button for 3 seconds until the message, INSTALLER MODE ARE YOU SURE?, displays.
 - Select YES, then press and release the OK button to display the Installer Menu. Select the Equipment Setup sub-menu. Record the configured settings in Table 1.

 - Exit Installer mode by selecting the Installer Exit menu option.

Table 1. Installer Menu – Equipment Setup Sub-menu.

EQUIPMENT SETUP SUB-MENU					
Sub-Menu and Option	Range	Factory Default	Equipment Settings Used		
BOILER SETTINGS					
HIGH LIMIT	120°F to 225°F (49°C to 107°C)	190°F (88°C)			
LOW LIMIT	60°F to 180°F (15°C to 82°C)	150°F			
BOILER DIFF	2°F to 41°F (1°C to 23°C) / AUTO	AUTO			
W.W.S.D.	a 35°F to 100°F (2°C to 38°C)	70 °F (21°C)			
RESET	OUTDOOR / LOAD / NONE	OUTDOOR			
OUTDOOR LOW	-60°F to 32°F (-51°C to 0°C)	10 °F (-12°C)			
BOILER DSGN	80°F to 210°F (27°C to 99°C)	180°F (82°C)			
MIN. RETURN	OFF / 80°F to 180°F (27°C to 82°C)	140 °F (60°C)			
BOILER OPERATION					
CYCLES/HOUR	2 to 6	4			
FIRE DELAY	0 seconds to 3 minutes (in 5 second increments)	10 seconds			
PURGE TIME	OFF / 10 seconds to 30 minutes (in 10 second increments)	30 seconds			
EXERCISE	YES / NO	YES			
FREEZE PROT	YES / NO	YES			
10V MOD. SELECT					
10V MOD	0-10V / 2-10V	0-10V			
USAGE	NONE / BOILER	NONE			
DOMEST.HOT WATER					
DHW	ENABLE / DISABLE	ENABLE			
DHW PRIO	YES / NO	NO			
PRIO.OVER.	YES / NO	YES			
DHW DEVICE	PUMP / VALVE	PUMP			
DHW VLV.OP	0 - 230 seconds (in 5 second increments)	15 (seconds)			
DHW PURGE	YES / NO	YES			
DHW SENSOR	YES / NO	NO			
DHW SETPOINT	 60°F to 160°F (16°C to 71°C)	140°F (60°C)			
DHW DIFF	 5°F to 40°F (2.5°C to 22°C)	20°F (-7°C)			
DHW VACANCY	 [41°F + DHW DIFF] to 160°F ([5°C + DHW DIFF] to 71°C)	45°F (7°C)			

Table 1. Installer Menu – Equipment Setup Sub-menu. (Continued)

	EQUIPMENT SETUP SUB-MENU						
Suk	Sub-Menu and Option Range		Factory Default	Equipment Settings Used			
ZON	ZONING						
	HT DMND PRIO	YES / NO	NO				
	PRIO.OVER	YES / NO	NO				
	ZONING VALVES TIME TO OPEN	5 - 230 seconds	15 seconds				
AUX	ILIARY I/O						
	AUX.IN (optional)	SETBACK / VACATION / EM. SHUT / NONE	SETBACK				
	AUX.OUT (optional)	BOILER / SETBACK / ZONE OP. / ALARM / AUX.IN / DHW IN / HEAT IN / HT DMND / NONE	BOILER				
	AUX.PUMP (optional)	BOILER / GROUP / OCC / BYPASS / NONE / AUX.IN / DHW IN / HEAT IN / HT DMND	BOILER				
A/C	SETTINGS						
	CYCLES/HOUR	2/3/4/5/6	4				
	MIN.OFF TIME	2 to 10 (minutes)	5M				
	C.W.S.D.	 32°F to 100°F (0°C to 38°C)	65°F (18°C)				
A/C	A/C EQUIP CONFIG						
	ZONE	A-1 to D-16	A-1				
	A/C UNIT	NONE / 1	1				
	COOLING	ENABLE / DISABLE	ENABLE				
ENV	ENVIRACOM (not used at this time - reserved for future use)						
	Modules ID:	n/a	n/a				

^a Any entry of two dashes (- -) indicates that the option is disabled or not used.

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