

CONTROLLER: SAB-B4-TB

Controllers for 1 to 4 boilers & 1 to 4 chemical feed pumps.

Sensors:	Cable to:	Located:
Boiler 1 Conductivity	E+ & E-	Door mounted circuit board
Boiler 2 Conductivity	S1 & S2 Labeled Boiler #2	Module located in back of enclosure – See Appendix D3 in manual
Boiler 3 Conductivity	S1 & S2 Labeled Boiler #3	Module located in back of enclosure – See Appendix D3 in manual
Boiler 4 Conductivity	S1 & S2 Labeled Boiler #4	Module located in back of enclosure – See Appendix D3 in manual

Cabling Notes: Extend conductivity sensor cables with 2 x AWG22 cable, shielded or unshielded.

Motorized Valves:	Cable to:	Located:
Boiler 1 Blowdown Valve	NC2, NO2 & N2	Door mounted circuit board
Boiler 2 Blowdown Valve	NC3, NO3 & N3	Door mounted circuit board
Boiler 3 Blowdown Valve	NC4, NO4 & N5	Door mounted circuit board
Boiler 4 Blowdown Valve	NC5, NO5 & N5	Door mounted circuit board

Cabling Notes: Cable valves with AWG18 to AWG14 multiple stranded. Cabling fused @ 7 amps. Do not use AWG12-14, 7 strand. Wire steam rated solenoids to **NOx & Nx** terminals.

Chemical Pumps are usually plugged into the pump plug enclosure at the end of the flexible, blue conduit. Controllers with more than one chemical pump will have less than four boilers:

Chemical Pumps:	Cable to:	Located:
Boiler Treatment	L1 & N1	Door mounted circuit board
Sulfite (<i>maximum 3 boilers</i>)	NO4 & N4	Door mounted circuit board
Amine (<i>maximum 2 boilers</i>)	NO5 & N5	Door mounted circuit board
Caustic (<i>maximum 1 boiler</i>)	NO6 & N6	Door mounted circuit board

Cabling Notes: Cable pumps with AWG18 to AWG14 multiple stranded.

Any mix of three contact head, turbine & paddlewheel sensors may be connected to the controller.

Water meters:	Cable to:	Located:
Softened Make-up	'O' input	Door mounted circuit board
Boiler Feed #1 to #2	'P' & 'Q' inputs	Door mounted circuit board

Cabling Notes: Contact head meters wire to **O+** & **O-** through **Q+** & **Q-**.

See manual Sections 3.3.5 & 4.3 for turbine & paddlewheel cabling.