

CONTROLLER: SAB
 Continuous Conductivity control for Boilers

Four wire boiler conductivity sensors are intended for use with sample coolers. The additional two wires are provided for thermal compensation of the conductivity.

Connect only sensors with blue cable sleeves to input 'E'

Sensors:	Cable to:	Located:
Boiler 1 Conductivity	A+ & A-, E+ & E-	Door mounted circuit board Blue cable sleeve sensors
Boiler 2 Conductivity	S1 & S2, T1& T2 Color coded	Modules located in back of enclosure – labeled by function Black cable sleeve sensors
Boiler 3 Conductivity	S1 & S2, T1& T2 Color coded	Modules located in back of enclosure – labeled by function Black cable sleeve sensors

Cabling Notes: Extend conductivity sensor cables with 4 x AWG22 cable, shielded or unshielded & color coded black, white, red and green.

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

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.

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

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

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

Fail to Sample:	Cable to:	Located:
Boiler 1	'V' input	Door mounted circuit board
Boiler 2	'W' input	Door mounted circuit board
Boiler 3	'X' input	Door mounted circuit board