

CONTROLLER: SAT
SAT-CP-OR-F-RM E4- Hardwired

| Conductivity Sensors: | Cable to: | Located: |
|------------------------------|---------------------------------|--|
| Tower Conductivity | A+ & A-, E+ & E- | Door mounted circuit board Blue cable sleeve sensors |

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

| pH & ORP Sensors: | Cable to: | Located: |
|------------------------------|---|--|
| Tower pH | C+ & C- Coax. Shield to C- | Door mounted circuit board Green ground wire to backplate |
| ORP controller | Sensor + & - Coax. Shield to '-' | Module located in back of enclosure – labeled by function See manual appendix D3. |

Cabling Notes: Do not parallel pH cables & AC power cables.
 If sensor cables are shortened, strip center conductor 'black' insulation from inner 'clear' insulation before terminating. Do not extend pH sensor cables.

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

| Water meters: | Cable to: | Located: |
|----------------------|------------------|----------------------------|
| Tower Make-up | 'O' input | Door mounted circuit board |
| Tower Bleed | 'P' 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.

| Flowswitch: | Cable to: | Located: |
|---------------------|------------------|----------------------------|
| Tower Recirculating | 'U' input | Door mounted circuit board |

Cabling Notes: Connect to **U+** & **U-**. Dry contacts may be substituted for a flowswitch.
 Contacts must be closed to operate pumps and solenoids.

| Pumps & Bleed Solenoid: | Cable to: | Located: |
|------------------------------------|--------------------------------------|----------------------------|
| Inhibitor Pump | Line to L1 Neutral to N1 | Door mounted circuit board |
| Bleed Solenoid | Line to NO2 Neutral to N2 | Door mounted circuit board |
| Acid Pump | Line to NO3 Neutral to N3 | Door mounted circuit board |
| Oxidant Pump | Line to NO4 Neutral to N4 | Door mounted circuit board |

Cabling Notes: Pumps & bleed solenoids are hard-wired using AWG18-16 multiple stranded wire.
Do not wire AWG14, seven strand wire directly to the door mounted terminal blocks.

Refer to Manual Section 3.3.8 for wiring detail.