

## 9 TROUBLESHOOTING THE SCS

Refer to table 9.1 for troubleshooting tips:

**Table 9.1:** Troubleshooting Tips

Item	Problem	Recommended Actions
1	Power light is off	Check supply voltage at J3(1-5). If this voltage is 125 V DC (or the respective substation control voltage) check the internal fuses. If the fuses are good but the light is still off, contact ABB
2	Clock light is off	See item 1, if the power light is off, too. Otherwise contact ABB.
3	SCS does not communicate	Check Items 1 and 2. Verify use of serial cable part number 406A067-01. Do not use a null-modem cable or null-modem plug in combination with the supplied serial cable. When using CB Insight™ to communicate with the SCS, select "Tools   CB Insight Settings" verify baud rate and com port selection. Try communicating with a different SCS using the same computer and cables. If this works (proof that the problem is with the SCS not the computer or settings) contact ABB.
4	"Check CT Current(s)" light is on, even though current is flowing through the breaker	Check the current through the auxiliary CT's. If feasible, verify that the voltage across J13 (1-2), J13 (3-4) and J13 (5-6) is approximately 1 V RMS for every 1 A RMS flowing through the auxiliary CT's. Download data using the Data-Download Wizard. Switch to the "Control Center Window" and look for specific alarm information, i.e. which of the currents signals is missing.
5	"Check CT Current(s)" light is on, while the breaker is in the open position	The SCS did not see current inception during the last synchronous close operation on one or more phases. Close the breaker, then follow the instruction of item 4. If the intention is to use the SCS for synchronous opening then it has been misconfigured. Reconfigure the SCS by running the Commissioning Wizard.
6	"Check Switch(es)" light is on	The SCS did not see a change in the auxiliary switches during the last synchronous open operation. Verify connector J15 is plugged in. If the intention is to use the SCS for synchronous closing then it was misconfigured. Reconfigure the SCS by running the Commissioning Wizard.
7	"Out-Of-Sync" light is on	See 8.2.3 Troubleshooting Sync Problems
8	"Check PT Voltage(s)" light is on.	Verify that the voltage at J11(1-4) is around 115V RMS. If the intention is that all three phases are connected, check J11(2-4) and J11 (3-4) as well. Also, verify in the "Advanced Settings" that the selection for the field "Alarm on Loss of PT Signals" matches the intended connections. For example, if the selection is on "Any" but only the 0° voltage is connected, an alarm will occur.
9	"Check DC Voltage" light is on	Verify that the control voltage is 125Vdc (or 48Vdc or 250Vdc depending on SCS model). Contact ABB.
10	"Other" light is on	Download data using the Data-Download Wizard. Switch to the "Control Center Window" and look for specific alarm information.