

Switchpoint/Evaporation test Instructions for boilers with LP40 low water level probes and LCS3050 controllers

ENSURE ALL HEALTH & SAFETY GUIDELINES ARE FOLLOWED FOR YOUR SITE THROUGHOUT

Prior to starting the test, check the LCS3050 controller LEDs – they should appear as below. If this is not the case, please contact us before conducting the evaporation test.

IF THE PANEL NEEDS TO BE OPEN TO CONDUCT THIS CHECK, PLEASE DO THIS SAFELY AND IN LINE WITH SITE HEALTH AND SAFETY STANDARDS.

LCS3050 LED/button Descriptions and Tests ● Green on ● Red on

Before test conditions/both probes fully submerged, LEDs should show:



Level probe 1
Test and diagnosis button

LED alarm 1 / operating mode

Diagnosis LED

LED alarm 2 / operating mode

Level probe 2
Test and diagnosis button

Always pay close attention to the water level in the sight glass.

Now conduct the switchpoint/evaporation test:

1. Approach the Low Water Level according to the Installation and Maintenance Instructions (IMI) for LCS3050 and the IMI for LP40.
2. Ensure burner cuts out and alarms sound at low water level.
At this stage;
3. Check the indication LEDs of the LCS3050 visually in the control panel.
4. Log evidence of evaporation test in line with company policy.

At low water level conditions/both probes out of water, LEDs should show



At low water level you should see:-

AL1 LED = ● Red = OK	AL2 LED = ● Red = OK
ON1 LED = ● Green = OK	ON2 LED = ● Green = OK

A) If all LED functions are OK as per the above table, Return the boiler to full operation

B) If either/both of the LED functions are Not OK as per the above table,
Do not restart boiler. Follow fault finding instructions in IM-P693-06

If a persistent fault occurs/you do not see the expected LED output, contact your local Spirax Sarco representative. Details can be found on accompanying order/delivery documentation or on our web site: www.spiraxsarco.com