



UDC 2500 Application Note

Troubleshooting Current Proportional Output Failure

Step	What to do	How to do it
1	Make sure the controller is configured for Current output and the proper range (4 to 20 or 0 to 20) is configured.	Make Output Set Up group function prompt OUT ALG = CUR. Make the Output Set UP group function prompt CRANGE = 4–20 or 0–20 per your application. Refer to Section Error! Reference source not found. - Configuration.
2	Check the field wiring.	Output impedance must be less than or equal to 1000 ohms. An easier method of checking is to use a 250 ohm resistor across the output terminals and measure the DC voltage drop. 4ma = 1 Volt DC 20ma = 5 Volt DC
3	Check the output.	Press the <i>Setup</i> key to <i>Tuning</i> Set the <i>Lock</i> prompt to <i>None</i> Press the <i>Setup</i> key to <i>Cal Current</i> .
4	Check the Current Proportional output calibration.	Check ZROVAL = 365 +/- 40 Output value should be 4ma or 1 volt DC Check SPNVAL = 1880 +/- 40 Output value should be 20ma or 5 volt DC
5	Change Current Output board.	If the output does not work, change the current output card. Installation instructions provided with new board.