

**Head Office
Sales and Support**
1540 West 2nd Avenue, Unit #611
Vancouver, BC Canada V6J 1H2
P: 604-732-0142 F: 604-737-0162



Warehouse
1060 East Pole Road
Everson, WA USA 98247
P: 360-738-9835 F: 360-647-7724

rev- 2009-07-09

Battery problems with alkalines

1) Non NiMH batteries should NEVER be used with the DM2 with the charger. The built in-charger drives current into the battery, which is dangerous and can cause an explosion on Alkaline batteries.

In extenuating circumstances, when alkalines must be used:

2) NiMH batteries have a nominal voltage of 1.2V. Duracells Alkaline AA batteries have a nominal voltage of 1.5V. Brand new batteries have an initial charge that can be about 20% higher than nominal voltage, so I think that in this case the total input voltage to the DM2 is about 7V. When the DM2 reads the battery voltage, there is an upper threshold. If the read voltage is above the threshold, the DM2 assumes that it is running from the wall. But the wall-voltage-present-pin indicates there is no wall voltage. Therefore, the DM2 detects an error condition and shuts down.

For this special case, where one is not using a power adapter, you'll need to throw the batteries in a CD player for a few minutes and then try again. This should bring the battery voltage below the threshold and allow the alkalines to be used.