



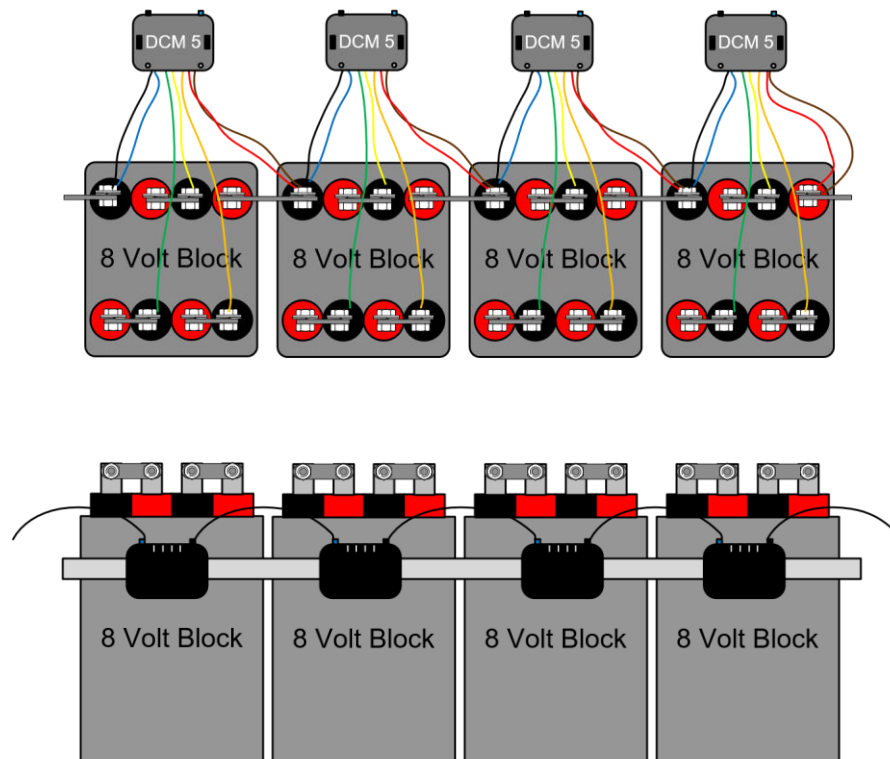
Tech20160422-1-0

DCM 5 on Large Flooded 6 or 8 Volt Containers

Large flooded 6 or 8 volt batteries that are comprised of three or four 2 volts cells, respectively, in one container can have an Ohmic value significantly less than 1 milliohm ($m\Omega$). Typically, these cells have the individual terminals available so that the Cellwatch Data Collection Module (DCM) can be attached at either the cell level or across the whole container.

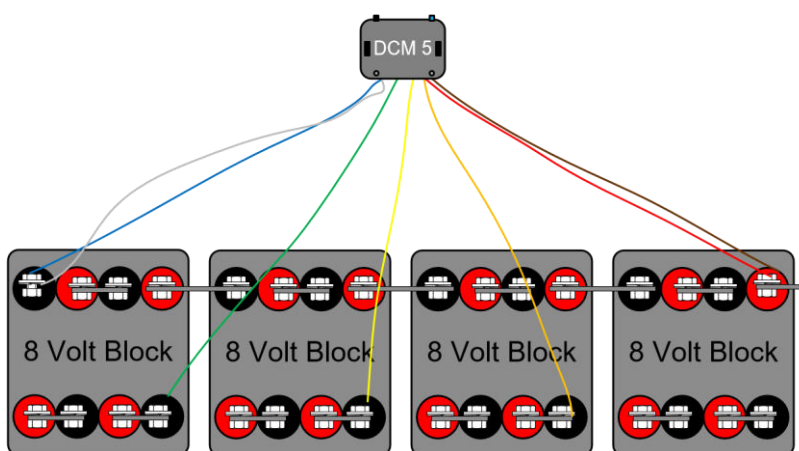
It is important that with these low Ohmic value batteries that the DCMs are configured to measure at the cell level and not the container level. This is to ensure that the DCM is powered from four 2 volt cells (8 volts total) and NOT four 8 volt containers (36 volts total). This allows the DCM 5 to operate in 4A Ohmic mode and NOT in 1A mode so that it can more accurately measure the low Ohmic value reading. Large vented containers have much lower Ohmic values than VRLA containers and will require a greater signal-to-noise ratio.

Correct Method:





Incorrect Method:



While it is recommended that you measure the individual cells of a container, it is acceptable to measure 2 cells (i.e. 4 volts) per DCM channel so that the DCM is powered from 16 volts. The DCM operates in 4A mode at power supply voltages less than 20 volts.