



Application Note:

DVC10 & DVC50 Current Regulation

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The DVC10 and DVC50 calculate current by reading a voltage across a current sense resistor. This resistor is selected according to the maximum current expected to be driven by the output. The output is then calibrated at 100% of its rated current at the factory. The DVC10/DVC50 do not have an Offset calibration for proportional outputs. Therefore the accuracy of the displayed current at a particular point is dependent on the value that the unit was calibrated at as well as the amount of current being driven at the time.

The displayed current values for the DVC10/DVC50 should be treated as a reference indication only and values for maximum and minimum current settings specific to an application should always be obtained through system response. Under normal conditions the DVC10 maintains good current regulation regardless of the accuracy of the displayed values.

The DVC5 and DVC7 as well as the DVC710 and later versions of DVC Master Modules have an Offset applied to the displayed current calculations as well as improved current measuring circuitry. The accuracy of the current displayed by the Program Loader Monitor is greatly improved throughout the current range of these modules. Even so, system response should always be used to calibrate settings particular to an application.