



Technical Note

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Technical Note Number: DVC-7-Tech Note-1

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Family: DVC series controllers

Models Affected: DVC-7

Description:

Signal 'crosstalk' between universal inputs on the DVC-7 modules reported by user

Background:

Driving the DVC-7 Universal Inputs 1 and 2 at voltages above 5.0 Volts with respect to Ground may cause signal crosstalk between both UNI_1 and UNI_2 inputs and unexpected operational results at the outputs.

For example, if UNI_1 were set up as a RPM Pulse Input and UNI_2 was set up as an Analog Voltage Input, and if the Pulses from the RPM sensor were greater than 5.0 volts, the pulse data may also be seen/superimposed on the UNI_2 input.

Solution:

This overvoltage situation should be avoided to ensure that NO unexpected results regarding application control are seen.

The inputs on the DVC series are protected internally and this Crosstalk is a harmless result of 5 Volt CMOS technology and there is no danger of damaging the DVC-7 inputs with voltages greater than 5 volts and less than 30 volts.

The solution is to ensure that any sensor or signal source connected to or used with the DVC-7 universal inputs does not exceed 5.0 Volts as specified in the DVC-7 User Manual.