Measurement made easy

Introduction

An expanded use of the internal input/output (I/O) function within the PGC5000A Master Controller can reduce or eliminate the need for an external I/O Enclosure (EIO5000).

The PGC5000A internal I/O function can contain up to four I/O modules, which potentially allows for up to 16 analog outputs. If more than 16 analog output channels are required, then a “stream ID” function can be used. To utilize a stream ID feature, a dedicated digital output module can be used in the place of one of the analog output modules. This stream ID feature is predicated on not all components being measured at the same time. If only one stream is measured at a time, then each stream can measure a total of 12 components. Thus you will now be able to use more than 16 analog outputs with a stream ID and eliminate the need for the external I/O enclosure (EIO5000).

Implementation

This approach utilizes up to three four-channel analog output modules and one four-channel 24V digital output module. Each analog output module measures four components, providing the necessary 12 component total for a given stream. The single digital output module provides stream identification, allowing the analyzer to report up to 48 components. Figure 1 illustrates the maximum potential of this approach. Other digital output – analog output combinations are allowed to suit specific requirements, as well as adding a “Come Read” functionality.
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