

## **BULLETIN 1203-GD1, GK1, GM1 Two Wire Control APPLICATION NOTE #**

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### **PURPOSE**

The purpose of this document is to provide guidelines for wiring and control schemes for SCANport devices including Bulletin 1305 and 1336 PLUS AC Drives. This document is to be used as a suggestion only. Users must ensure that installations meet applicable codes and are suitable for the existing conditions.

### **WHAT THIS NOTE CONTAINS**

This document contains information and a simple example of a PLC5 ladder program that allows you to do two wire control through a 1203-GD1,GM1,GK1.

### **INTENDED AUDIENCE**

This application note is intended to be used by personnel familiar with the hardware components and programming procedures necessary to operate the SCANport device. It is also assumed that the user has some familiarity with a PLC5 and ladder programming

### **WHERE IT IS USED**

The diagrams, parameter settings, and auxiliary hardware used in this application note are designed to address specific issues in many different applications. Some changes by the user may be necessary to apply the concepts of this document to a specific application.

### **Assumptions and Comments**

1. Drive setup as Rack 2 with BT disabled (SW3-1 = Off) and Logic Command/Status enabled (SW3-2 = On).
2. Two-Wire User Run is shown as I:000/00 -- this could be any bit address.
3. User Fault Reset is shown as I:000/01 -- this could be any bit address.
4. If a fault occurs and is reset, the User Run bit must transition from false to true before the drive will restart.

Rung 2:0

Drive STOP rung -- if the User RUN bit is false the Drive Stop bit will be on.

User		Drive
Run		STOP
I:000		Command
		O:020
+-----]/[-----		( )-----
00		00

Rung 2:1

Drive START rung -- if the User RUN bit is true and the drive is enabled the Drive Start bit will be on.

User	Drive	Drive
Run	Enabled	START
I:000	I:020	Command
		O:020
+-----] [-----] [-----		( )-----
00	00	01

Rung 2:2

Drive Fault Reset rung -- if the User Fault Reset bit is true the Drive Fault Reset bit will be on.

User		Drive
Fault		Fault
Reset		Reset
I:000		Command
		O:020
+-----] [-----		( )-----
01		03

Rung 2:3

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