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**VM10, PC10, GP10 & VG10  
Inverter  
24/120 VAC Interface Card Kit  
Manual**

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KIT NO. 100-0156-01

DOC. NO. 027-0156

# **SAFETY FIRST !**

## ***LETHAL VOLTAGES MAY BE PRESENT!***

PLEASE READ THIS INSTRUCTION MANUAL THOROUGHLY BEFORE ATTEMPTING ANY INSTALLATION, OPERATION, MAINTENANCE OR INSPECTION. FAILURE TO FOLLOW THE RECOMMENDED PROCEDURES OR CAUTIONS IN THIS MANUAL COULD RESULT IN INJURY TO PERSONNEL AND/OR DAMAGE TO EQUIPMENT.

## **CAUTION !**

1. CHECK THE NAME WRITTEN ON THE PRODUCTS AND INSURE THAT THE PROPER PART HAS BEEN RECEIVED.
2. THOROUGHLY INSPECT THE PART(S) FOR ANY DAMAGE DUE TO SHIPMENT OR HANDLING.
3. THE PART(S) MAY CONTAIN CMOS CHIPS AND CAN BE DAMAGED BY STATIC ELECTRICITY. HANDLING SHOULD BE IN ACCORDANCE WITH INDUSTRY STANDARDS.
4. BEFORE INSTALLING THE PART(S) TURN OFF ALL POWER TO THE EQUIPMENT AND INSURE THE CHANGE INDICATOR LAMP ON THE INVERTER IS **OFF**. ***LETHAL VOLTAGES ARE PRESENT !***
5. DO NOT CONNECT OR DISCONNECT WIRING WHILE POWER IS **ON !**
6. FOLLOW GOOD STANDARD WIRING PRACTICES AND ANY APPLICABLE CODES THAT MAY APPLY.

## **Description**

The **100-0156-01** 24/120 VAC Interface Card is designed to provide a hardware interface between the user's 24 or 120 VAC input control circuitry and the **Saftronics VM10, PC10, GP10, and VG10** Inverters. It provides for up to 9 inputs with 5Kvac input / output opto-isolation and 4 programmable form C output relays. It is a stand alone card that mounts remotely in Snap –Track and has screw type terminals for input / output interface wiring. On board LED indicators provide input / output status and 24 or 120 VAC operation is jumper selectable.

## **Specifications**

Input Control Voltage	-	24 or 120 VAC RMS (jumper selectable)
Input Resistance	-	120 VAC : 50 kohm 24 VAC : 10 kohm
Isolation Voltage	-	5Kvac
Output relays	-	Form C contacts: 120 VAC @ 0.5A 24 VDC @ 1.0A

## **Kit Includes**

(1) Interface Card	-	P/N 100-0156-01
(1) Snap-Track	-	P/N 041-3000

## **Installation**

**Turn off all power to the equipment being worked on before attempting any installation.** Using the snap-track provided, mount the **100-0156-01** Interface Card in a suitable location that is free from heat sources, moisture, harmful chemicals and airborne particles.

Referring to the appropriate installation manual for the inverter being used, follow the instructions for control terminals access and make the interconnections from the **100-0156-01** Interface Card to the inverter in accordance with fig. 2. Make the 24V or 120V control input connections for the control scheme being used. **Note: All wiring should be in accordance with applicable codes and follow good standard practices.**

Set the 24/120 VAC jumper(s) for the proper input voltage used. Jumper(s) **IN** for 24V operation **OUT**(factory default) for 120V operation.

**CAUTION: The 24/120 VAC option is factory defaulted at 120 VAC (jumper(s) OUT). IF the settings are changed to 24 VAC (jumper(s) IN) severe damage will result if 120 VAC is applied.**

When all wiring is completed and checked, apply power to the equipment and test the functionality of the system. Referring to the appropriate inverter manual make the necessary programming changes for the particular application requirements.

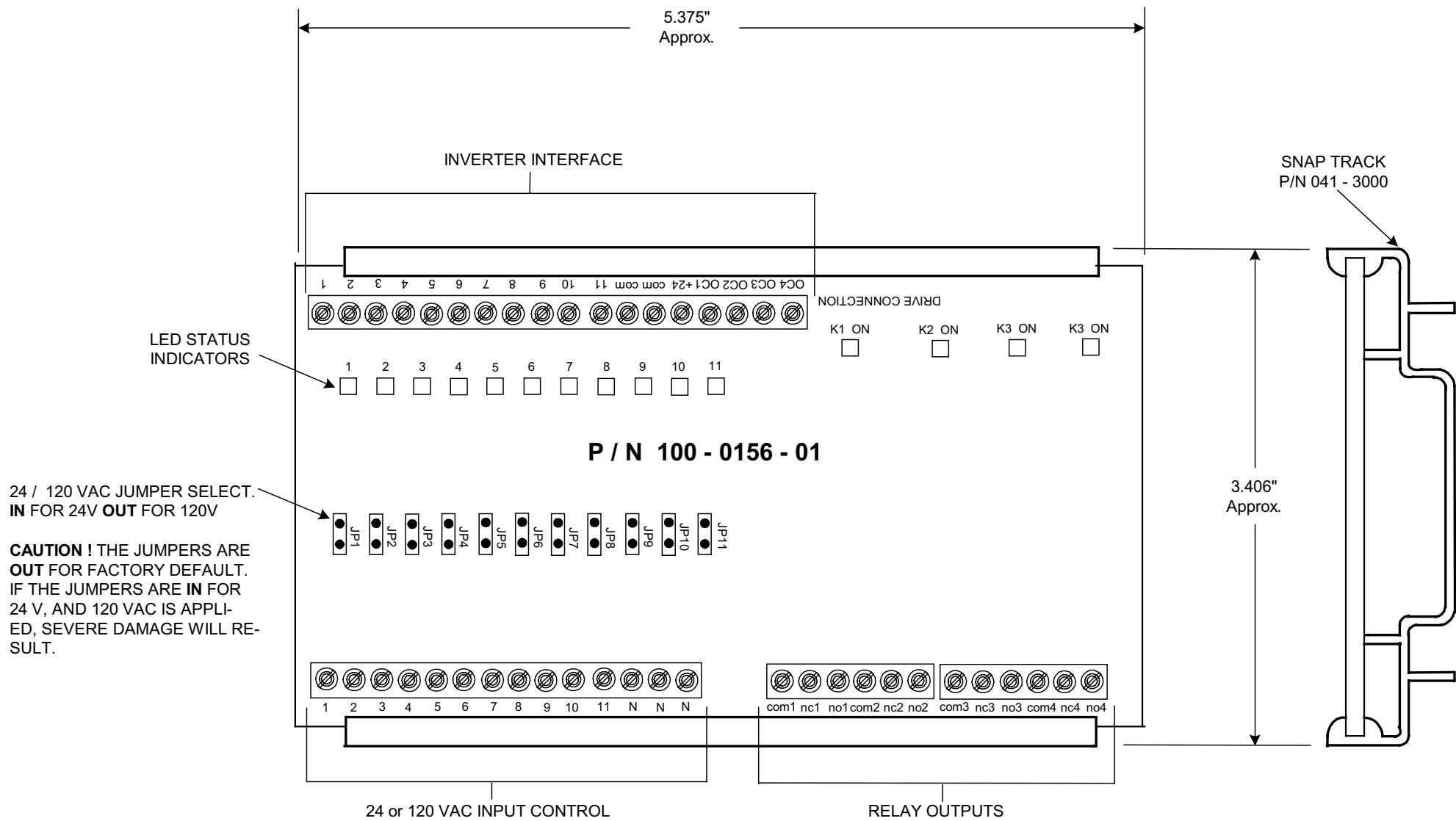
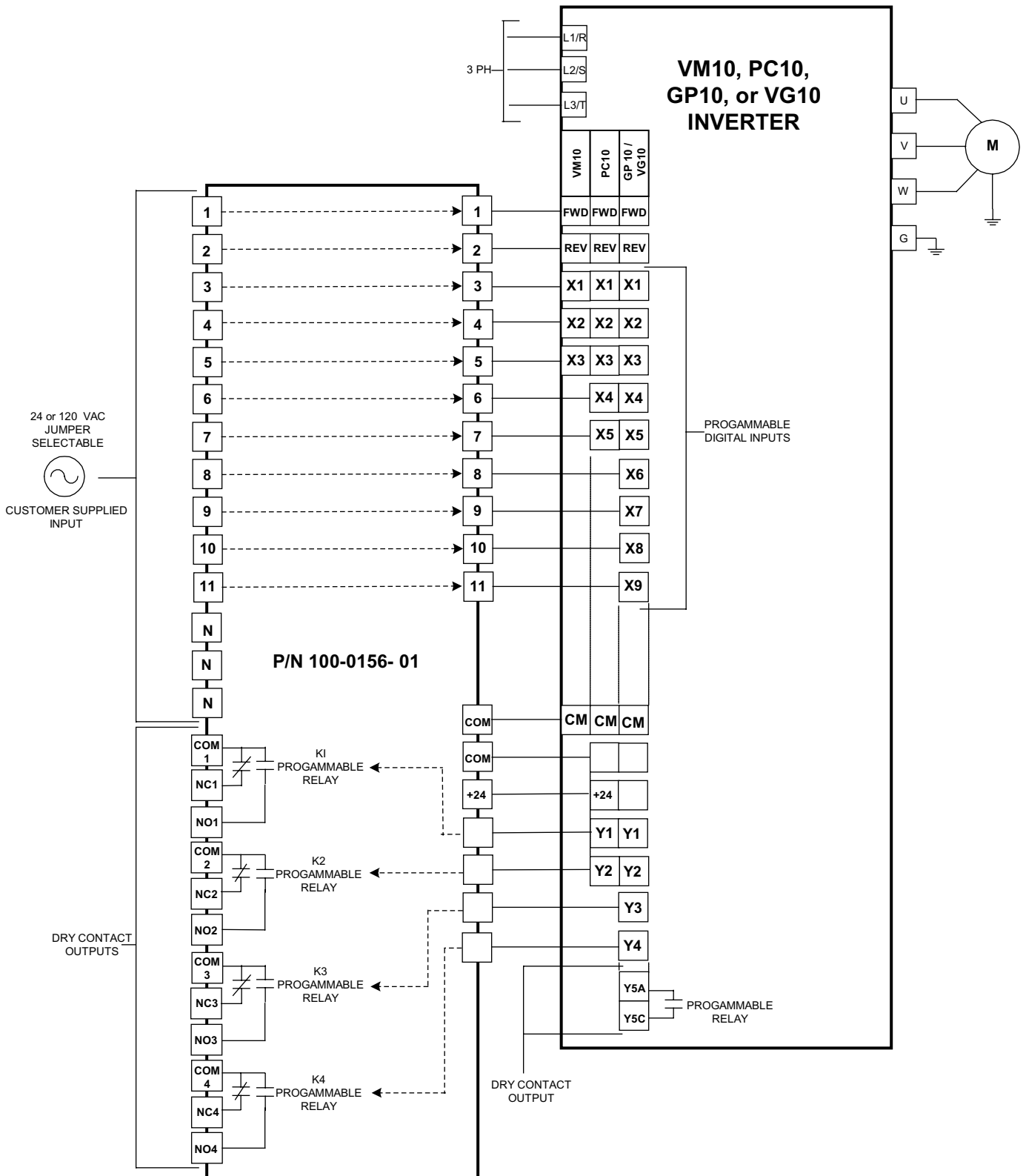


FIGURE 1 - 24 / 120 VAC INTERFACE CARD KIT

FIGURE 2 - VM10, PC10, GP10, OR VG10 INVERTER 24 / 120 VAC ISO.  
INTERCONNECTING DIAGRAM



## **WARNING!**

*Saftronics* manufactures component parts that can be used in a wide variety of industrial applications. The selection and application of *Saftronics* products remains the responsibility of the equipment designer or end user. *Saftronics* accepts no responsibility for how its products may be incorporated into the final design.

Under no circumstances should any *Saftronics* product be incorporated into any product or design as the exclusive or sole safety control. Without exception, all controls should be designed to dynamically fault detect and fail safe under all circumstances. All products designed to incorporate a component part manufactured by *Saftronics*, must be supplied to the end user with appropriate warnings and instructions as to the safe use and operation. Any warnings provided by *Saftronics* must be passed through to the end user.

*Saftronics* offers an express warranty only as to the quality of its products to conform to the catalog specifications. NO OTHER WARRANTY, EXPRESS OR IMPLIED, IS OFFERED. *Saftronics* assumes no liability for any personal injury, property damage, losses or claims, arising out of the mis-application of its products.