



## **INSTRUCTION MANUAL**

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# **USB Saflink Kit for the GP10 / VG10 Inverter Series**

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**SAFETY FIRST !**

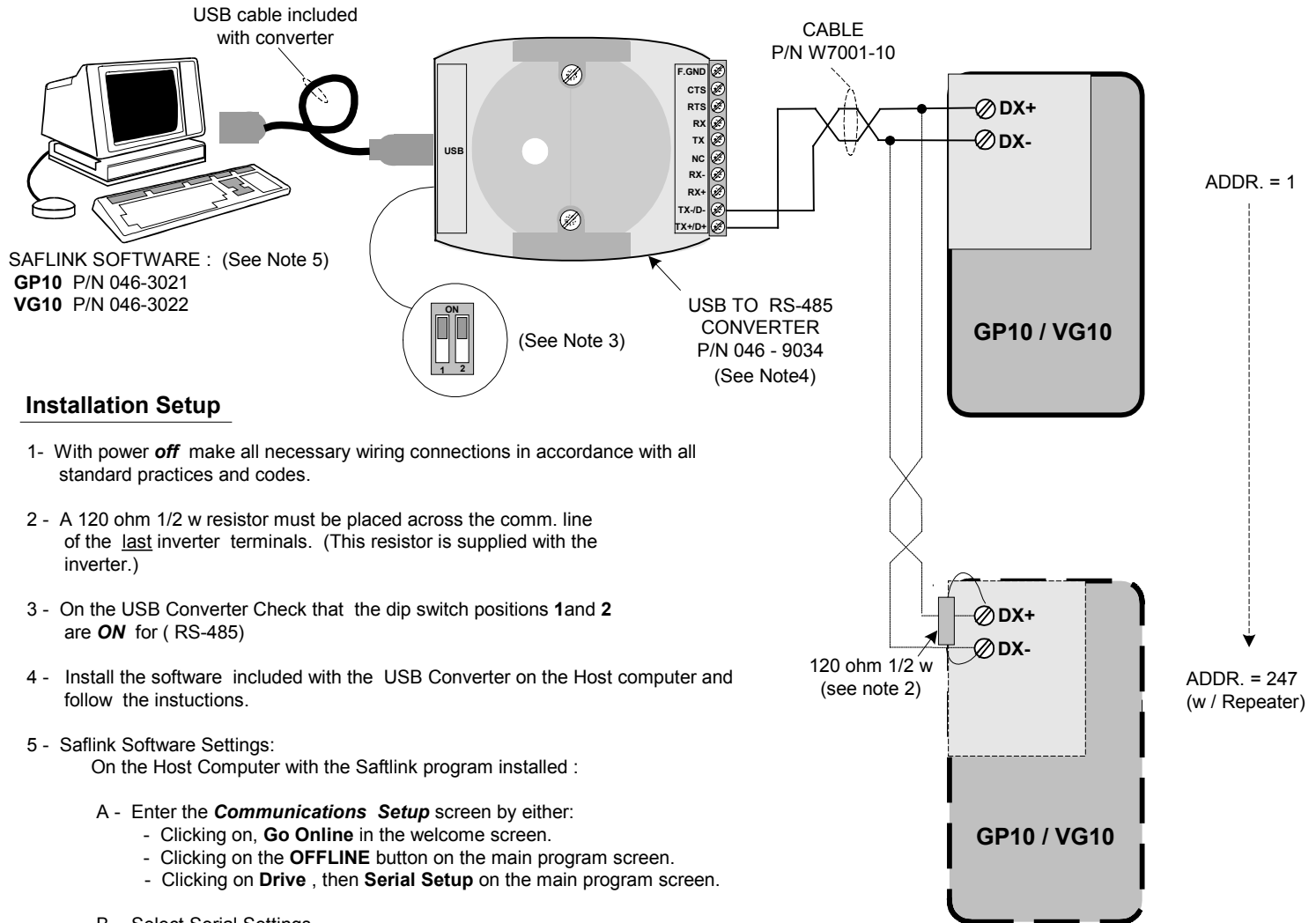
**LETHAL VOLTAGES MAY BE PRESENT**

PLEASE READ THIS 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 THE EQUIPMENT.

**CAUTION**

- 1 – CHECK THE NAME WRITTEN ON THE PRODUCT 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 DAMGED 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 CHARGE 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.

**CAUTION ! Make sure all power to the equipment is off before making inverter connections, as lethal voltages are present.**



**Installation Setup**

- 1- With power **off** make all necessary wiring connections in accordance with all standard practices and codes.
- 2 - A 120 ohm 1/2 w resistor must be placed across the comm. line of the last inverter terminals. (This resistor is supplied with the inverter.)
- 3 - On the USB Converter Check that the dip switch positions 1 and 2 are **ON** for ( RS-485)
- 4 - Install the software included with the USB Converter on the Host computer and follow the instructions.
- 5 - Saflink Software Settings:  
 On the Host Computer with the Saflink program installed :
  - A - Enter the **Communications Setup** screen by either:
    - Clicking on, **Go Online** in the welcome screen.
    - Clicking on the **OFFLINE** button on the main program screen.
    - Clicking on **Drive** , then **Serial Setup** on the main program screen.
  - B - Select Serial Settings
    - 1 - Serial
    - 2 - Single drive or Drive Network ( See Networking Setup )
    - 3 - Communications port (**Note:** the host computer assigns a port number to the USB converter when it is connected. This number may be accessed by right clicking on **My Computer** select **properties** then **Hardware - Device Manager - Ports** )
    - 4 - Port Setup:
      - Baud Rate Setting 9600
      - Stop Bit Selection 2 Stop Bits
      - Parity Selection No Parity
      - Data Format 8 Bits
    - 5 - Connection Timing
      - Transmission Delay 1 ms.
      - Response Delay 25 ms.
    - 6 - Station Number - 1 - 247 (Assigned by user in setting of parameter H31 in drive)

**Networking Setup :**

- On each drive on the network :
- Enter the programming mode with the keypad.
  - Set: H31 Serial Connection Station Address = (As required)
  - H34 Serial Connection Transmission Speed = 9600 (Baud)
  - H36 Serial Connection Transmission Parity = No Parity

\* Most of the drive software settings are set by default, but should be checked for conformance.

Drive Series	KIT P/N	Software P/N	Kit Includes	
			USB / RS485 Converter *P/N	Cable P/N
<b>GP10</b>	046 – GP10SL-USB	046-3021	046 - 9034	W7001-10
<b>VG10</b>	046 – VG10SL-USB	046-3022		

\* Includes USB cable and converter setup software

## **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.

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