**APPLICATION NOTE #: AN_VFD_CV1_001**
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**SUPERSEDES DATE:**
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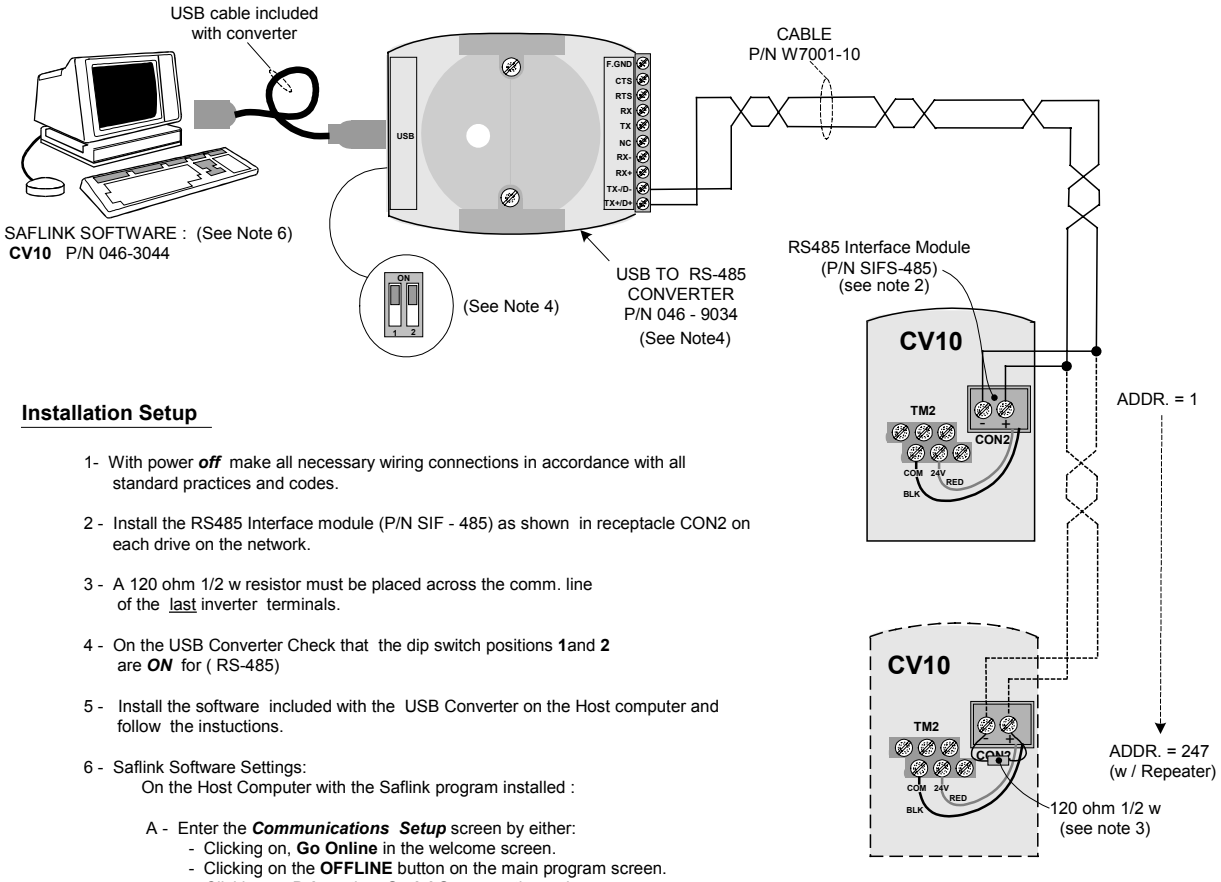
# CV10 SAFLINK RS485 / USB NETWORKING

The following diagram and notes describe the implementation of **RS485** to **USB** conversion to enable networking of the **Saftronics CV10** inverter series for use with ***Saflink***. The parts are available and may be purchased separately.

***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 - Install the RS485 Interface module (P/N SIF - 485) as shown in receptacle CON2 on each drive on the network.

3 - A 120 ohm 1/2 w resistor must be placed across the comm. line of the last inverter terminals.

4 - On the USB Converter Check that the dip switch positions **1**and **2** are ***ON*** for ( RS-485)

5 - Install the software included with the USB Converter on the Host computer and follow the instuctions.

6 - 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 38.4 kBaud
- Stop Bit Selection 1 Stop Bit
- 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 13-0 in drive)

**Networking Setup :**
On each drive on the network :
- Enter the programming mode with the keypad.
- Set: 13 - 0 Serial Connection Station Address = (As required)
13 - 1 Serial Connection Transmission Speed = *38.4 kBaud
13 - 2 Serial Connection Transmission Stop Bit = *1
13 - 3 Serial Connection Transmission Parity = * No Parity
13 - 4 Serial Connection Transmission Data Format = * 8 Bits

* Factory Default