

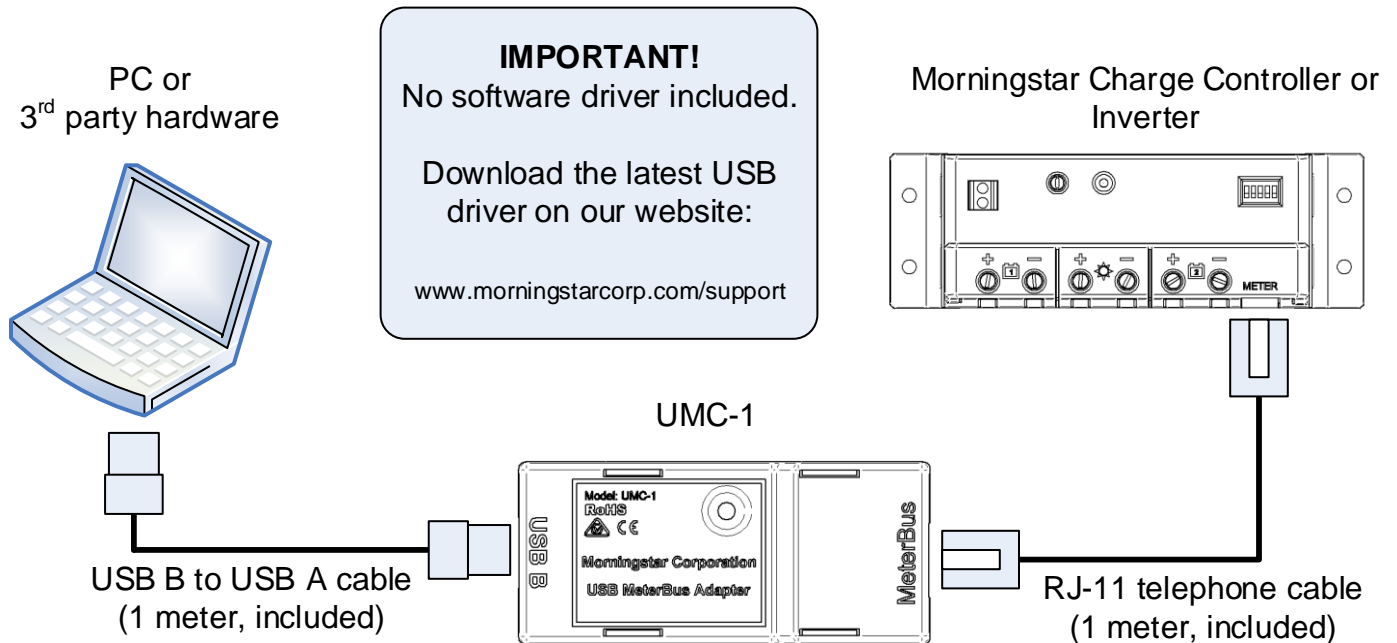
# Morningstar USB MeterBus Adapter Instructions

The USB MeterBus Adapter (model: UMC-1) converts the Morningstar MeterBus RJ-11 electrical interface to a standard USB 2.0 interface which allows communication between a PC and applicable Morningstar charge controllers or inverters \*. The UMC-1 is required for programming custom charging set-points and logging data using Morningstar's MSView PC software. The UMC-1 is also required for communication with any 3<sup>rd</sup> party hardware that supports MODBUS™ communication.



\* Morningstar controllers or inverters that only have a MeterBus connection, i.e. no serial or other communications port. This includes the SunSaver MPPT, SunSaver DUO, and Suresine products.

## Wiring Diagram



### Notes:

- 1) 4-conductor or 6-conductor telephone cord is acceptable
- 2) The UMC-1 is fully opto-isolated. USB electrical ground is NOT the same ground as RJ-11 / controller.

## LED Indication

OFF: No connection to controller

GREEN: Connection OK

ORANGE: Communication activity

Modbus documentation including register locations, scaling, and definitions can be found on Morningstar's website at:  
[www.morningstarcorp.com](http://www.morningstarcorp.com)