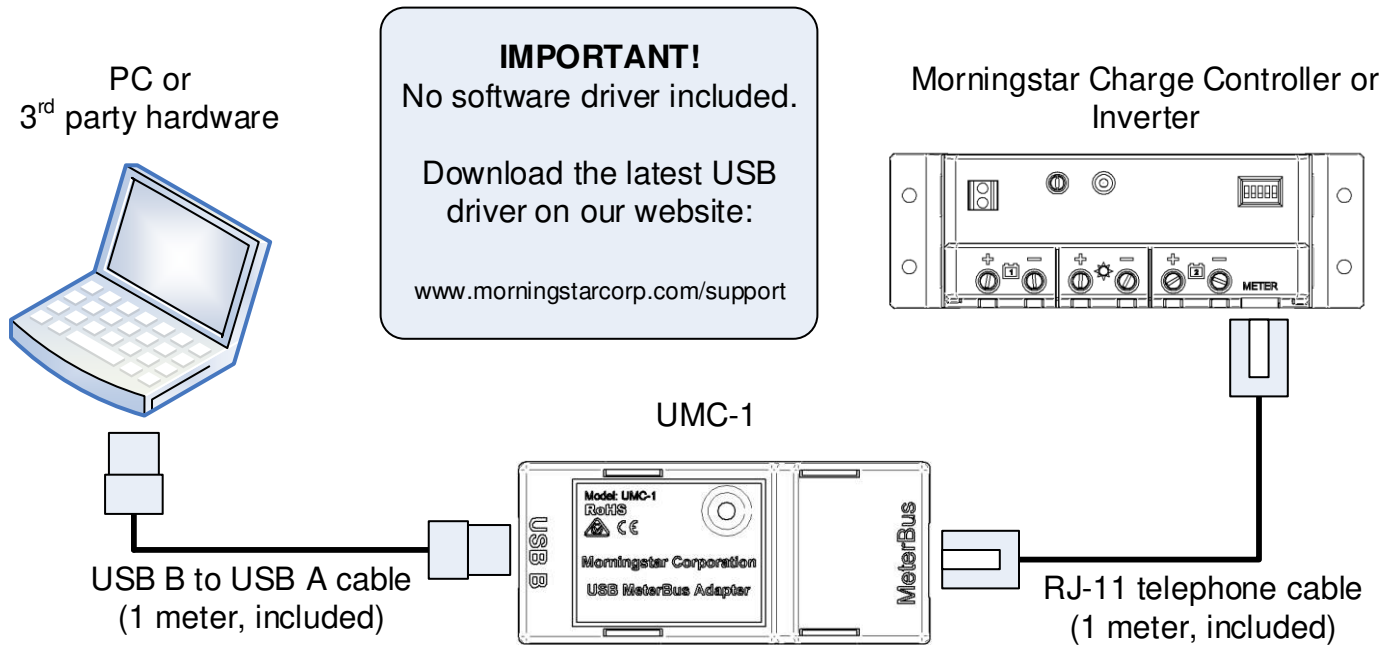# Morningstar USB MeterBus Adapter Instructions

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 3rd party hardware that supports MODBUS^{TM} 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

PC or
3rd party hardware

IMPORTANT!
No software driver included.

Download the latest USB driver on our website:

www.morningstarcorp.com/support

Morningstar Charge Controller or Inverter

UMC-1

Model: UMC-1
RoHS
Morningstar Corporation
USB MeterBus Adapter

USB B

MeterBus

USB B to USB A cable
(1 meter, included)

RJ-11 telephone cable
(1 meter, included)

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

CE   RoHS COMPLIANT