



# EtherMeter®

## PRE-START CHECKLIST



**Before getting started with the EtherMeter®, make sure you review the following checklist!...**

- 1. Specification Review. Make sure you have reviewed the EtherMeter’s engineering specifications, which are listed in both the Brochure and User Manual.
- 2. Flow Meter. Make sure your flow meter is compatible. For AMI-type (absolute-encoder) meters, check the “EtherMeter Compatibility Matrix PDF” on [scadametrics.com](http://scadametrics.com).
- 3. Meter Pre-Programming. If the flow meter is an AMI-type, does it require factory or field pre-programming? If so, make sure that it has been pre-programmed according to SCADAmetrics’ recommendations in the document “EtherMeter Compatibility Matrix PDF”.
- 4. Pulse-Output-Type Meters. If the flow meter is a pulse-output-type, is it a dry-contact or open-collector signal (Compatible with EtherMeter!)?... or a voltage-output-type (Not Compatible with EtherMeter!).
- 5. Setup Tools. Do you have the necessary setup tools for configuring the EtherMeter?
  - Windows-Based Notebook Computer – Not Included
  - USB-Serial Adapter Cable Not Included.  
Available from many online stores  
Available from SCADAmetrics.com  
Cost from SCADAmetrics: \$48
  - HyperTerminal Private Edition Software Not Included.  
Downloadable from Hilgraeve.com  
Cost, as of June 2016: \$64.99
  - DB9F/RJ45 Adapter  
Available from SCADAmetrics.com  
Cost: \$6.25 – One ships free with each order
  - Ethernet Patch Cable  
Available from SCADAmetrics.com  
Cost: \$3.50 – One ships free with each order

- 6. Power Supply. The EtherMeter requires an External, Isolated DC Power Supply; but does not ship with a power supply unless specified. The acceptable voltage range is 10-36VDC. Do you have the correct Power Supply? SCADAmetrics offers several units. The most popular is our din-rail-mountable MDR-20-24 (24VDC/20W) for \$44.
- 7. Meter Cable. 4-Conductor, Shielded w/ Drain Wire. Recommended: General C1352A or Belden 8723.
- 8. Enclosure. The EtherMeter requires an external NEMA enclosure (not included). An enclosure should be selected that matches your application, and purchased separately. The dimensions of the EtherMeter, Power Supply, and any other accessories should be considered when selecting an enclosure. SCADAmetrics has recently introduced an Indoor Enclosure Option (\$600) and two Outdoor Enclosure Options (\$896, \$1056). Please inquire for details.
- 9. Panel Mounting. The EtherMeter mounts onto standard 35mm industrial din-rail. Din-rail is not included, and should be purchased separately.
- 10. Documentation. Visit the [scadametrics.com](http://scadametrics.com) Documentation page to download the documents of interest. At a minimum, the User Manual and Meter Compatibility Matrix documents are recommended. Various Application Notes are also available to assist with common metering scenarios. The documentation should be studied in advance, paying particular attention to the sections detailing the Wiring Diagrams and HyperTerminal Setup. Please note that Hardcopy User Manuals do not ship with your order: All documents are provided as download-only.
- 11. Meter Signal Splitting. Does the AMI-type meter need to be read by another device in parallel to the EtherMeter? We manufacture two signal duplexers, the Model SDA (Din-Rail-Mount) and Model SDAW (Wall-Mount). Each are sold separately. Please note that utility-owned meters require permission and/or approval from the utility before connecting an EtherMeter and/or Duplexer.
- 12. Networking. The EtherMeter can communicate its meter readings using various industrial protocols, including: Modbus/TCP, Modbus/UDP, EtherNet/IP™, Modbus/RTU, Modbus/ASCII, and DF1. The type of networking should be planned in advance. If Ethernet-based, the following LAN networking parameters should be readied for programming into the EtherMeter: IP Address, Gateway, and Netmask.

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