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QTao™ G2 Data Hub

QUADLOGIC DATA COLLECTOR

The QTao™ G2 Data Hub is the data collector for the Quadlogic system. The QTao G2 Data Hub seamlessly integrates meter data with Quadlogic's cloud database and data visualization software, giving users easy access to building data.

The QTao G2 Data Hub is capable of remote data collection over hardwired Modbus RS-485 networks. Additionally, the QTao G2 integrates seamlessly with the optional QRadio for data collection using wireless mesh network technology. The QTao G2 Data Hub's hardwired LAN connection and cloud-based user interface allow for secure meter data access and troubleshooting in a variety of installation environments.

When coupled with the dry contact pulse inputs of the QBrick meters, the QTao gives users access to pulse data from a variety of 3rd-party meters.



FEATURES AND BENEFITS

- For commercial or residential building applications
- Robust data collection mechanism for reliable meter operation
- Seamless integration with Quadlogic's cloud database and data visualization software
- Battery backup for data-safe shutdowns during power failures
- Secure data storage and data transmission
- Pre-configured for Modbus RS-485 device communication
- Device auto-detect feature for plug and play setup
- Optional radio mesh (QRadio) network for communication with remote metering devices
- Three-year hardware warranty

SPECIFICATIONS

DATA ACCESS

- **10/100 Ethernet/LAN** port for QuadQloud database push
- **Secure access** through LAN for local or remote setup and troubleshooting
- Compatible with **QView Data Visualization Dashboard**
- **Memory:** 16 GB non-volatile flash memory
- **Database security** provided by Azure cloud services, data transfer is TLS 1.2 compliant

ENVIRONMENTAL

- **Operational Temperature:** -20° C to 55° C
- Retrofit or new construction, indoor installation, dry non-condensing

DIMENSIONS AND SHIPPING WEIGHT

- **Dimensions:** 10.0" Height x 8.0" Width x 6.0" Depth
- **Weight:** 9 lbs

METER CONNECTIVITY

- Compatible with Qbrick 1, 4, and 6 and miniQlosets
- **Data collection limits**, Modbus RS-485
 - KWh only: up to 480 metering points from any combination of up to 82 devices
 - All energy parameters: up to 360 metering points from any combination of up to 62 devices
 - RS-485 repeater required between every 16 devices
- **Optional wireless data collection** using 900 MHz radio mesh. Same data collection limits apply
- Collects pulse data from **3rd-party meters** when coupled with the QBrick's dry contact pulse inputs

ORDERING INFORMATION

Part #: 73-QTAOG2-1xRS485
73-QTAOG2-2xRS485

Description: The QTao G2 Data Hub is the data collector for the Quadlogic system.

Quadlogic Controls

Complete Submetering Solutions for New or Existing Construction

Quadlogic Controls designs and manufactures revenue-grade electrical submeters for tenant billing and energy management applications in residential and commercial buildings.

Deployed in mission-critical operations worldwide and compatible with leading property automation and information systems, Quadlogic submeters allow property managers and building owners to bill tenants while reducing energy consumption.

Quadlogic submetering solutions can be deployed in new or retrofit construction, easily integrating with existing building and financial systems.

Quadlogic's systems have been successfully deployed by property owners, submetering companies, building system integrators, and local distribution companies since 1984.

Quadlogic is a subsidiary of Metergy Solutions Inc., one of North America's most experienced submetering providers.

CONTACT QUADLOGIC AT 212-930-9300 OR SALES@QUADLOGIC.COM

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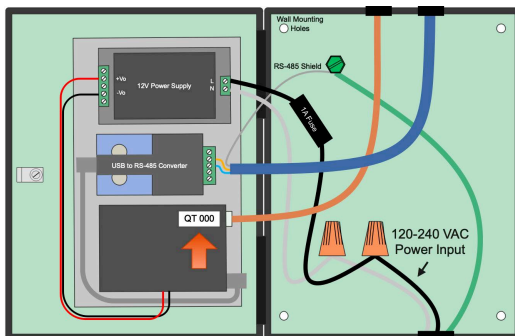
QTao™ G2 Rev 3 Quick Startup Guide

MATERIALS NEEDED

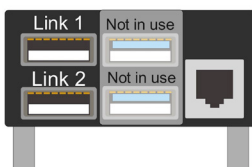
- Installed QTao™ G2 unit with Internet access (via Ethernet cable)
- Flathead screwdriver

PROCEDURE

1. Open the QTao G2 enclosure with a large flathead screwdriver.
2. Power up the QTao. Wait 30 seconds for the device to boot.
3. Verify that the green and orange LEDs on the QTao Ethernet port are blinking. *Note: contact the installer if there are issues (i.e. Ethernet light are not blinking or device does not power on).*
4. Call Quadlogic Control Technical Support at 212-930-9300 (ext. 709) to verify remote connection.
5. Technical Support will request the QTao (QT) number (see red arrow in diagram below).



6. Technical support will ask for information about the comm devices connected to each USB Link. USB Link locations are labeled in the diagram below.



7. Technical Support will verify that the QTao is communicating with the QuadCloud database. Once verified, leave the device powered on and close the QTao enclosure with a large flathead screwdriver.

ACCESSING METER DATA

Successful completion of steps 1-7 means the QTao is now connected to the QuadCloud database.

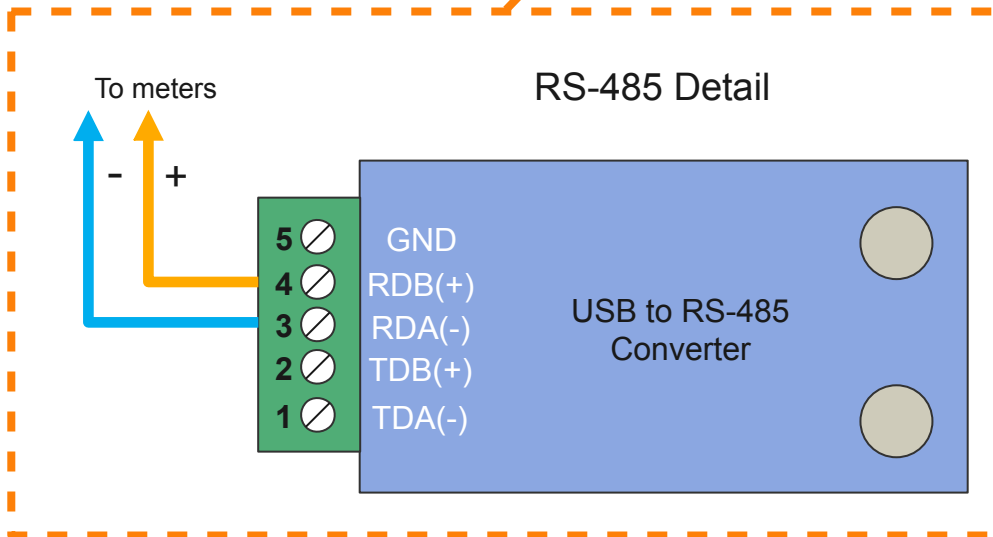
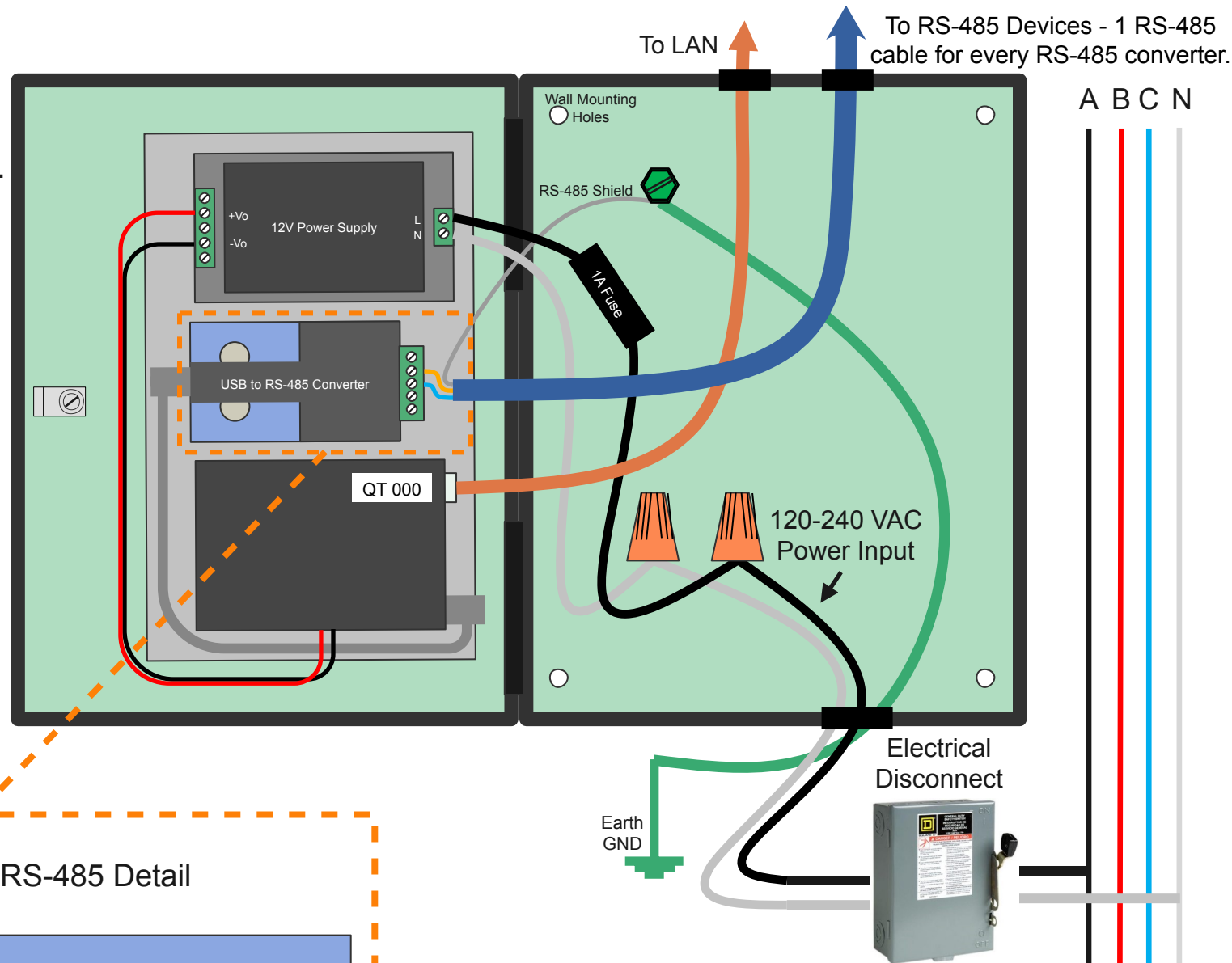
Please reach out to Quadlogic Control Billing at (212) 930-9300 (ext. 2) for information on how to access metering data.

QTao G2 Data Hub Wiring Diagram

Pwr, LAN, and Comm connections.
See pg 2 for details on Link requirements.

Notes:

- Follow local electrical codes when installing the QTao G2.
- Remote data collection requires a hardwired (ethernet) internet connection.
- Note: The QTao G2 2xRS-485 has two RS-485 links and two RS-485 cables leaving the box.
- See page 2 for device qty limits
- See *QFamily RS-485 Wiring Guidelines* at www.quadlogic.com for RS-485 wiring specs and recommendations

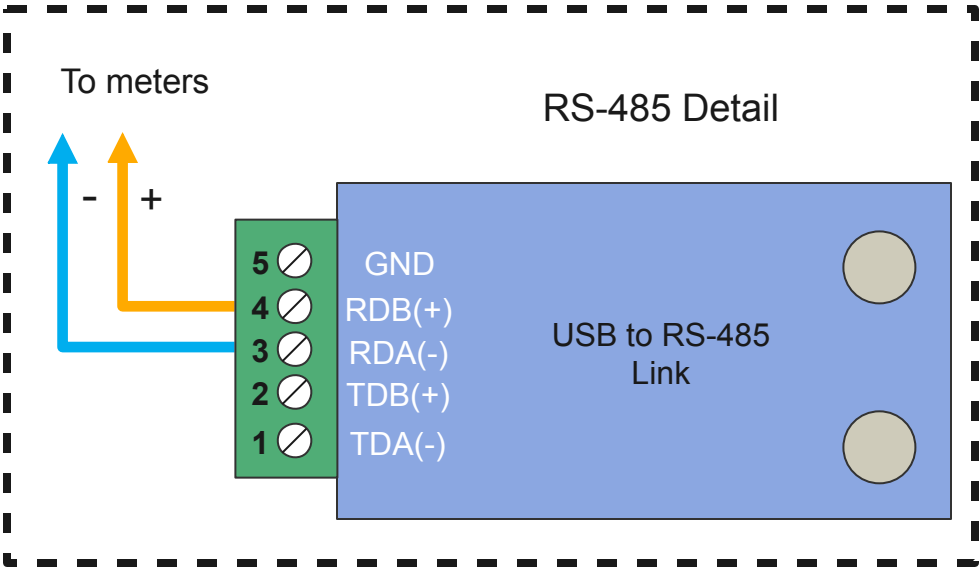
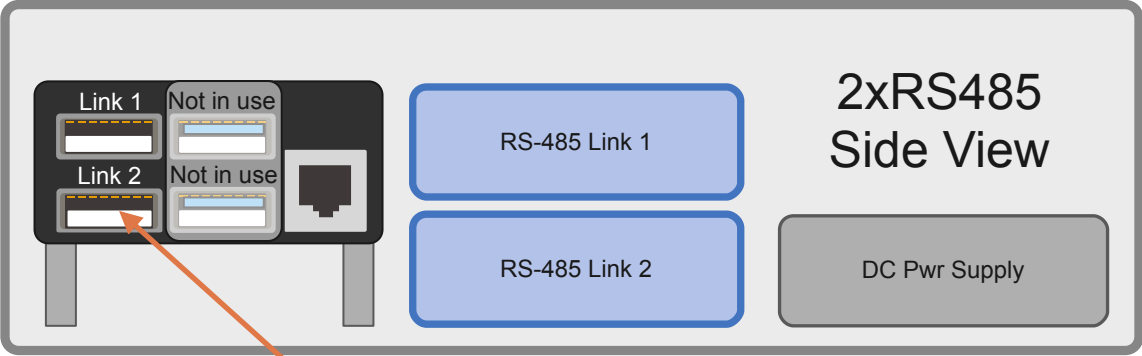
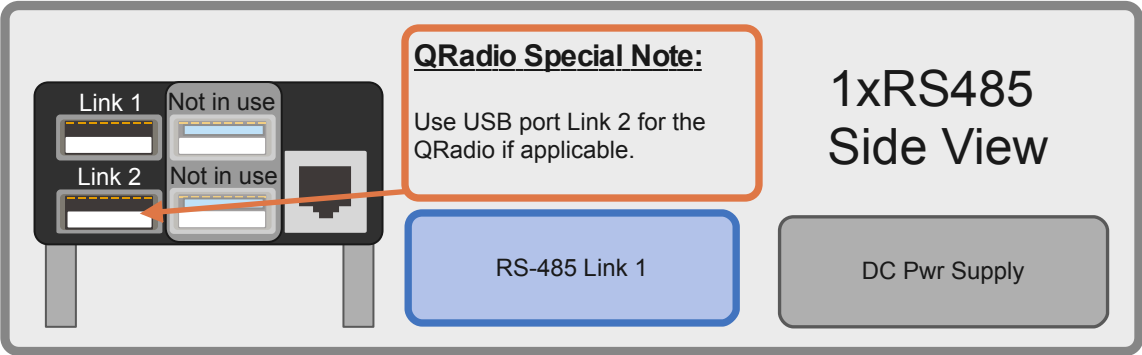


Quadlogic Controls Corp. 33-00 Northern Blvd Long Island City, NY 11101 212-930-9300		www.quadlogic.com		 Powered by 
Title: QTao G2 R3 1x and 2x RS485 Pwr, LAN, Comm		Desc: Power, LAN, and RS485 connections for QTao G2 R2 with 1xRs485 or 2xRS485 converters		
Designed By: Ishmael Romero		Date: 12/12/2023		Revision: V1.0
Checked by: Ava Pope		Sheet: 1 of 1		Size: not to scale
Approved by:				

QTao G2 Rev 3 - 2xRS485 and 1xRS485 Link Details

- Notes:
- Blue USB ports do not function - do not plug any devices into them unless specifically instructed by Technical Support.
 - Compatible with Qbrick 1, 4, 6 and miniQLoset meters
 - QTao Device count limits:
kWh only: 480 metering points from any combination of up to 82 devices

All Energy Parameters: 360 metering points from any combination of up to 62 devices
 - RS-485 repeaters are required between every 16 Modbus devices.
 - QTao G2 Rev3 cannot read Qlic Meters.



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Title: QTao G2 R3 Link details		Desc: Link requirements for QTao G2 R3 with 1xRS485 or 2xRS485 converters		
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