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SOLUTIONS

# QBRICK 1

## MULTI-CHANNEL ELECTRIC METER

The QBrick™ 1 is a revenue-grade electric meter designed for commercial applications. The QBrick 1 comes in a compact, rugged enclosure and can monitor one 3-phase circuit.

The QBrick 1 is easy to install and operate. Its space saving footprint is designed for use in retrofit and new construction.

Data from the QBrick 1 is retrieved by the system's meter data hub and pushed directly to Quadlogic's cloud database (QuadCloud) providing customers with seamless access to near real-time meter data.



## FEATURES AND BENEFITS

- Inputs rated for 120–600 VAC L–L (Autoranging), Wye/Delta
- A self-contained, compact, rugged enclosure saves significant installation costs
- Daisy chain up to 48 QFamily meters to a single QTao™ (meter data hub) for local and remote access to meter data
- Measures kWh, kvarh (4-quadrant), and kVAh
- Real Time Parameters: true RMS Volts, Amps, Watts, power factor, and frequency
- Meets all ANSI C12.20 accuracy requirements
- 60 days of 5 minute interval data stored internally for all parameters
- Detailed event recording for diagnostic purposes
- Data access via automated push to cloud database, local display unit, or into BMS (Modbus or BACNet)
- 3 year battery backup for meter clock
- 6 dry contact pulse inputs for integration with 3rd-party metering devices
- Hardware lockable meter configuration
- LEDs to indicate power/communication status
- Secure and reliable non-volatile flash memory
- Optional display unit for visualization of real time meter status. Daisy chain up to 16 QFamily meters per display unit
- Three-year hardware warranty
- Meets UL61010 safety standards

# SPECIFICATIONS

## ELECTRICAL

- **Metering Reference Voltage:**  
3-phase, 1 metering load, 120–600 VAC L-L (Autoranging), Wye/Delta
- **Current Input Rating:** 0.1 Amp CT secondary inputs
- **Input Power Voltage:** 120–240 VAC
- **Power Consumption:** < 12 Watts
- **Pulse Constant:** 1 Wh/pulse

## COMMUNICATION AND MEMORY

- **Meter Communication:** Modbus RTU over standard 2-wire RS485, optional wireless mesh radio (QRadio)
- **Data Access and Visualization:** daisy chain up to 16 QFamily meters to local display unit, daisy chain up to 48 QFamily meters to QTao meter data hub.
- **3rd Party Integration:** 6 dry contact pulse inputs for integration with 3rd-party metering devices
- **Interval Programming:** 5 min interval data, 288 intervals per day
- **Non-volatile memory** stores 60 days of 5 min interval data and 1000 event records

## REGULATORY

- **ANSI 0.5 Class Accuracy** (with ANSI 0.1 class CTs)
- **Meets UL 61010 Safety Standards**

## ENVIRONMENTAL

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

## DIMENSIONS, WEIGHT AND MOUNTING

- **Dimensions:** L x W x D = 261 mm x 125 mm x 71 mm
- **Weight:** 4 lbs
- **Mounting Options:** DIN rail, wall mountable inside electrical panel, optional NEMA enclosures

## ORDERING INFORMATION

**Part #:** QBRICK-JQ-3P1M

**Description:** The QBrick™ 1 is a revenue-grade electric meter designed for commercial applications. The QBrick 1 can monitor one 3-phase circuit.

## 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.

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