



QD2040a

Ubiquity Site Gateway



Description

The QD2040a Ubiquity Site Gateway connects the site controller network with the central Ubiquity™ server.

The QD2040a features:

- Site gateway to Ubiquity: enables controller's interoperability with Ubiquity
- Enables Ubiquity to maintain controller programming and scheduling
- Compatible with all TCS Basys supported controllers
- Controller protocols supported: TCSbus and Modbus
- Supervisory control routines
- Supervisory override strategy
- Auto discovery of networked controllers
- Two integrated RS-485 serial ports
- Additional serial ports can be added via USB ports
- Integrated Ethernet controller with firewall
- Integrated configuration web page
- User adjustable controller monitoring rate
- Remotely upgradeable gateway software

Specifications

GENERAL

Programming: Via TCS Insight™ factory pre-programmed (recommended) or USB flash drive

Integrated RS-485 Ports (2):

- Removable screw terminal blocks
- 22 AWG, 3 conductor twisted and shielded wire
- Up to 64 controllers per network

USB

- 4 USB 2.0 Ports
- USB to RS-485 serial converter may be used to add more controller networks (not included). Can connect up to 14 additional USB hubs.

ENVIRONMENTAL

Operating temperature: 32 to 77° F (0 - 25°C), Good ventilation mandatory. Ideal environment is in a server room

Operating humidity: 90% Non-condensing

Storage temperature: 32 to 130° F (0 - 55°C)

ELECTRICAL

Supply voltage: 120 - 240 VAC, 165 VA 2.5 A Max, UL, FCC Class A, and CE Listed

Specifications subject to change without notice.

Specification Suggestions

The Ubiquity Site Gateway shall be microprocess-based, suitable to perform remote monitoring and alarming functions.

The Ubiquity Site Gateway shall be programmed using a browser per the instruction manual. It shall support uploading of alarm and trend data to the Ubiquity Central Servers. Alarms shall be kept in non-volatile memory.

The Ubiquity Site Gateway must support non-volatile storage, so that in the event of power loss, all programmed operating parameters shall be unaffected when running without the use of battery backup. All control functions shall continue in the event of an Internet communications failure.

The Ubiquity Site Gateway must have energy metering and monitoring abilities. It must be able to accurately monitor energy demand and consumption. The Ubiquity Site Gateway shall be able to communicate energy demand and consumption to a centrally based server where it is trended.

The Ubiquity Site Gateway shall provide local communications in accordance with RS-485 standards. It shall send and receive encrypted data over an Ethernet connection. The Ubiquity Site Gateway shall be model QD2040a as provided by TCS Basys Controls.

Ordering Information

Part #	Description
QD2040a	Ubiquity Site Gateway
QD2040 Series Accessories	
QD1010b (Networks)	USB to RS-485 Communications Converter (only needed if more than 2 RS-485 net works)
QD1011a	RS-485 Communications Network Repeater
PI4000	USB Diagnostics Tool
PI6100	Cellular Modem for QD/QWL Series with Verizon Service
QW1010c	TCS ZigBee wireless gateway

View our full line at www.tcsbasys.com.

Dimensions

QD2040a Series

Note: inches [mm]

