Quantify qBridge (DIN rail)
Auxiliary Controller
PN00-AX00-01

INSTALLATION GUIDE

Product Description

A Quantify qBridge facilitates integration with 3rd party products and legacy systems. The auxiliary controller provides four independent Digital Input channels and four independent Digital Output channels. The 2.4 GHz Wi-Fi Feature Card provides 802.11 b/g/n wireless for communication with other qDevices, the Quantify Cloud service and Quantify mobile apps. Electrical, policy and advanced living experience settings are fully software configurable. Applications include control of lighting and blinds; irrigation, security and audio visual systems.

Safety Information

⚠️ ⚠️ **DANGER: Electrical Shock Hazard.** The supply circuit must be turned off, locked and tagged before wiring to the DIN rail-mounted power supply of the auxiliary controller.

Installation Instructions

IMPORTANT: Installation of the qBridge must be carried out by a qualified electrician and in accordance with local authority rules and regulations. The place of installation should be indoors and protected from extremes of temperature and water ingress.

DIN Rail Installation

IMPORTANT: To ensure maximum Wi-Fi connectivity, install the qBridge inside a non-metal cabinet.

1   Mount the DIN rail inside a service cabinet and clip the qBridge onto it, ensuring the grooves are securely fastened to the DIN rail edges.
2   Clip the power supply to the DIN rail and connect it to the PCB using the supplied wiring loom. Wire the AC inputs directly into the mains or use a plug to connect the qBridge to a power outlet. **IMPORTANT:** Strip back 5mm of insulation and connect wires tightly under terminating screw.
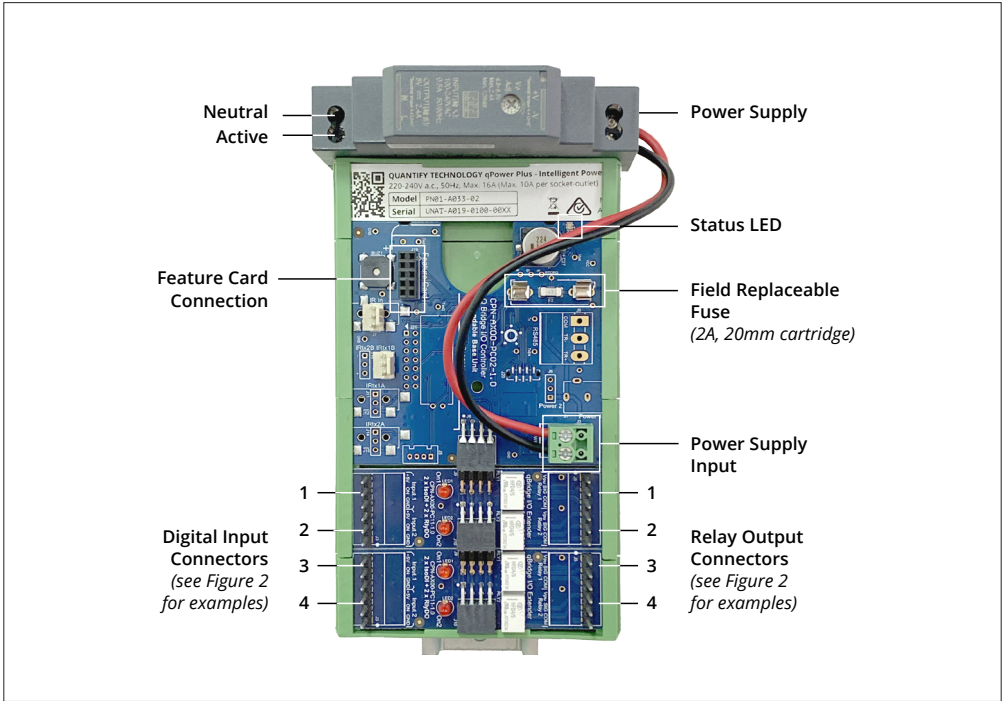
Wiring Instructions

Neutral

Active

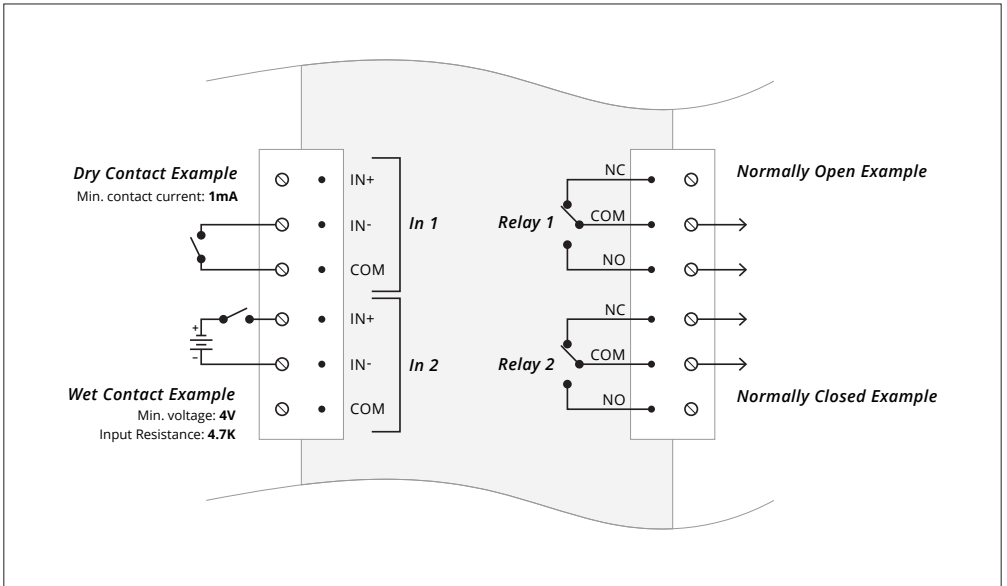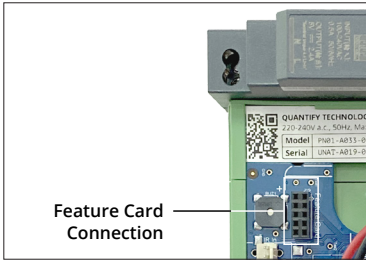**Power Supply**

Status LED

Feature Card Connection

Field Replaceable Fuse
(2A, 20mm cartridge)

Power Supply Input

Digital Input Connectors
(see Figure 2 for examples)

1
2
3
4

Relay Output Connectors
(see Figure 2 for examples)

1
2
3
4

Figure 1: qBridge Connection Summary

Dry Contact Example
Min. contact current: **1mA**

IN+
IN-
COM

In 1

Wet Contact Example
Min. voltage: **4V**
Input Resistance: **4.7K**

IN+
IN-
COM

In 2

Relay 1

NC
COM
NO

Normally Open Example

Relay 2

NC
COM
NO

Normally Closed Example

Figure 2: Digital Input & Relay Connections

Feature Card Installation

Feature Card Connection

IMPORTANT: Only compatible with the Quantify Technology Wi-Fi Slimline Feature Card.

Firmly plug the Feature Card connector into the socket located at the left hand side of the board cutout, as shown in the illustration.

Setup and Commissioning

IMPORTANT: The installed qBridge needs to be commissioned with the free-to-use qCommission App, available from the Apple App store.

Operation Instructions

IMPORTANT: A qBridge that is not commissioned will, upon closure of a digital input, switch the corresponding relay output on.

A commissioned and networked qBridge can control any local loads, as well as any remote loads controlled by other qDevices that are part of the same network, as specified in the Living Experience configuration. Living Experiences include single service control, grouped services and scenes. The system can be controlled from the Touch Panels, the qLiving App or by Voice Assistant.

qCommission App

System Status

The Touch Panel displays the system status with a small LED light positioned at the top right.

- Green solid light: Wi-Fi available and qDevice is connected
- Orange flashing light: Wi-Fi configured but not connected
- Red solid light: qDevice error
- Blue slow flashing light: qDevice updating
- Blue fast flashing light: qDevice restarting

Additional Help

IMPORTANT: We constantly work to improve our products, and document any changes or updates here: www.quantifytechnology.com/product-documentation

Product Updates

Specifications

Operating Voltage AC	100-240V AC	Input via hardwired connection to the mains
Frequency	50/60Hz	
Fuse	2A onboard	Field replaceable with 20mm cartridge, if onboard fuse fails
Operating Temperature	0°C to 50°C	
Operating Humidity Range	10 to 85% RH	
NC/NO Relay Output Channels	4 Sets	3 position screw terminals 3.5mm pitch NC/NO & common connections Maximum voltage 30V 1A Maximum cable size 1.5mm^2
Dry or Wet Contact Inputs	4 Sets	3 position screw terminals 3.5mm pitch Maximum cable size 1.5mm^2 Wet contact input voltage should not exceed 20V
IP Rating	N/A	
User-Serviceable	No	

Warranty
GENERAL WARRANTY ON PRODUCTS

LIMITED WARRANTY

Quantify offers a warranty of 24 months (Warranty Term) from the date of delivery of the Quantify products for all defects in materials or workmanship for any products supplied to the Client. Where a product supplied to the Client is defective within the Warranty Term, Quantify will either repair or replace those products at its discretion. Refurbished parts may be used to repair the Products. Replacement of the Product or a part does not extend or restart the Warranty Term. If a Product presented for repair is capable of retaining user-generated data, the Reseller acknowledges that repair of the Product may result in loss of the data. Quantify may offer different delivery methods for warranty service, including, but not limited to, parts and product dispatches, mail-in service and onsite/in-home service or as otherwise agreed between the Client and Quantify in writing. Quantify will cover any costs to get the repaired/tested/replaced Products back to the Client. Any Products being sent in for warranty should be sent with all parts unless otherwise advised by one of Quantify's staff.

GENERAL EXCLUSIONS AND LIMITATIONS

The Warranty will not apply:

a.   to a Product which has not been installed, operated, maintained or used in accordance with the manufacturer's instructions or specifications provided with the Product;

b.   to a Product where the factory-applied serial number has been altered or removed;

c.   to a Product where the Product is, or has been damaged, has malfunctioned or failed due to alterations, accident, misuse, abuse, fire, liquid spillage, mis-adjustment of customer controls, used on an incorrect voltage, power surges and dips, thunderstorm activity, acts of God, voltage supply problems, tampering and unauthorised repairs by any persons other than by Quantify, the operation of a computer virus of any kind, exposure to abnormally corrosive conditions or entry by any insect, vermin or foreign object in the Product, normal wear and tear, or use of parts and components not supplied or intended for use with Quantify's Products;

d.   to third-party products or software that are bundled or provided with the Services; and

e.   in relation to results to be obtained from the products or Software.

Full terms and conditions including Warranty Terms can be found on Quantify's website.

Technical Specifications for products with future release dates are subject to change and should not be relied upon.