

mBus Control Stations

Cat. Nos. QTM00-050 (5-Button), QTM00-090 (9-Button)

INSTALLATION

ENGLISH

WARNINGS AND CAUTIONS

- **WARNING: TO AVOID SERIOUS PERSONAL INJURY** never push objects of any kind into this product through openings, as they may touch dangerous voltages.
- **WARNING: TO AVOID SERIOUS PERSONAL INJURY** never touch uninsulated wires or terminals unless the wiring has been disconnected at the network interface.
- Read and understand all instructions. Follow all warnings and instructions marked on the product.

WARNINGS AND CAUTIONS

- Never install communications wiring or components during a lightning storm.
- Never install communications components in wet locations unless the components are designed specifically for use in wet locations.
- Use caution when installing or modifying communications wiring or components.
- Do not use this product near water - e.g., near a tub, wash basin, kitchen sink or laundry tub, in a wet basement, or near a swimming pool.
- **SAVE THESE INSTRUCTIONS.**

DESCRIPTION

Leviton Quantran mBus control stations are a flexible, easy to configure control interface to Quantran mBus load control devices. Offered in multiple scene configurations and finishes, a device is available to fit every lighting control need.

POWER CONSIDERATIONS

Input: mBus Stations Require 8-18Vdc
Current draw: 10mA

Standard dc Voltage Drop calculations should be used to ensure that your voltage is always greater than the minimum. If you're using 18AWG Belden 1502R with a resistance of 0.0069ohms/foot, the following formula can be used:

$$V_{drop} = \text{Total Load (Amps)} * \text{Run Length (Feet)} * 0.0069 \text{ Ohms/Foot}$$

NOTE: Assuming you're using a 12Vdc Supply, and you'll allow a voltage drop of 12V-8V=4V, the formula can be simplified to:

$$\text{Max Run (Feet)} = 4 / (\text{Total Load (Amps)} * 0.0069)$$

INSTALLATION

- Product is designed to fit into a single gang 3" x 3" back box, not included.
- Follow best industry practices for installation
- Product requires commissioning by a Leviton field commissioning agent after installation.

NOTE: The mounting surface must be flat to avoid distortion of the back plate, which may prevent the cover plate fitting correctly. For the same reason, do not over-tighten the fixing screws.

TERMINATIONS

Use RS485 compatible cable for communications. RS-485 requires a single Twisted Pair, 24 AWG minimum.

- Connect Data+, Data-, Common, +V, and shield at every station (see Table 1).
- Do not splice control wire
- Shield shall be connected to ground at the dimmer rack and must only be connected to ground at one point in the system.
- Capacitance of wire shall be 15pF/ft. or less.
- Normal Impedance of wire shall be between 100-120 ohms.
- A second pair of stranded wire is required for the power.
- We strongly recommend the use of either Leviton #WIRLN-500, Belden 1502R, or equivalent be used for wire runs.

OPERATION

- Scene buttons are used to recall pre-programmed scenes. Reference dimmer modules installation instructions for details on programming.
- Raise/Lower buttons are used to raise or lower the last selected scene.
- Off turns the lights off.
- The IR Receiver can be used with the IR remote to execute the above functions.

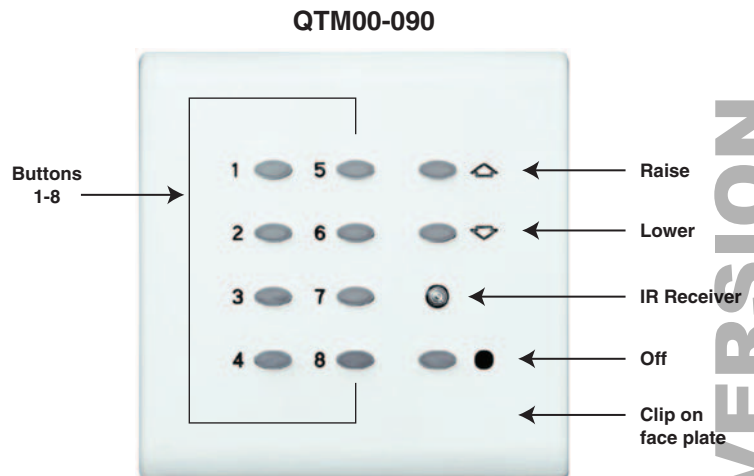
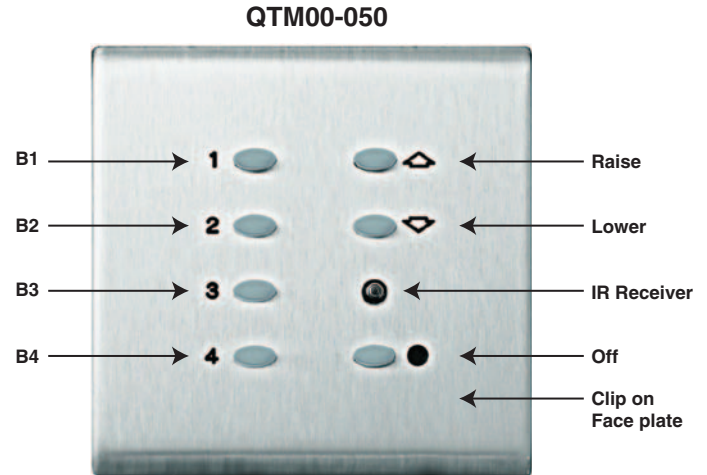
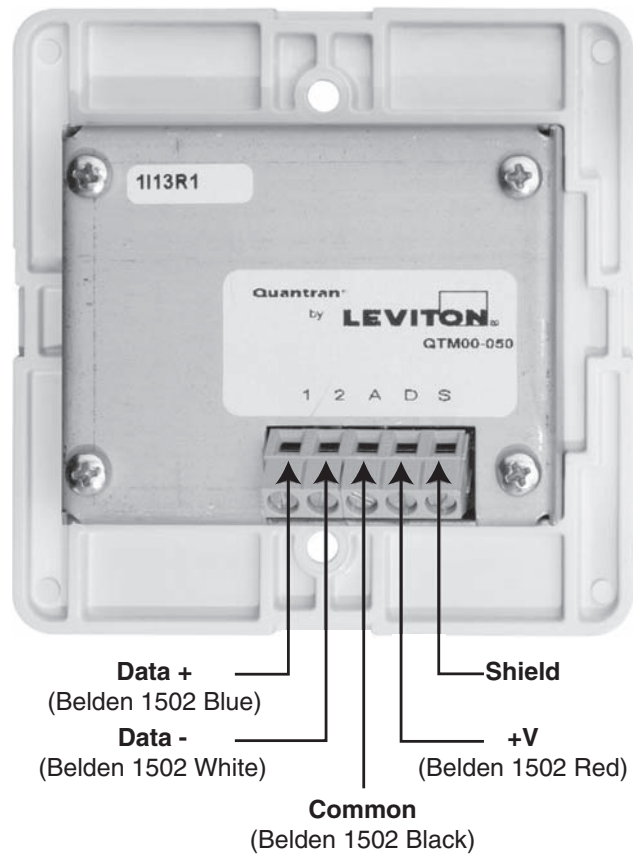
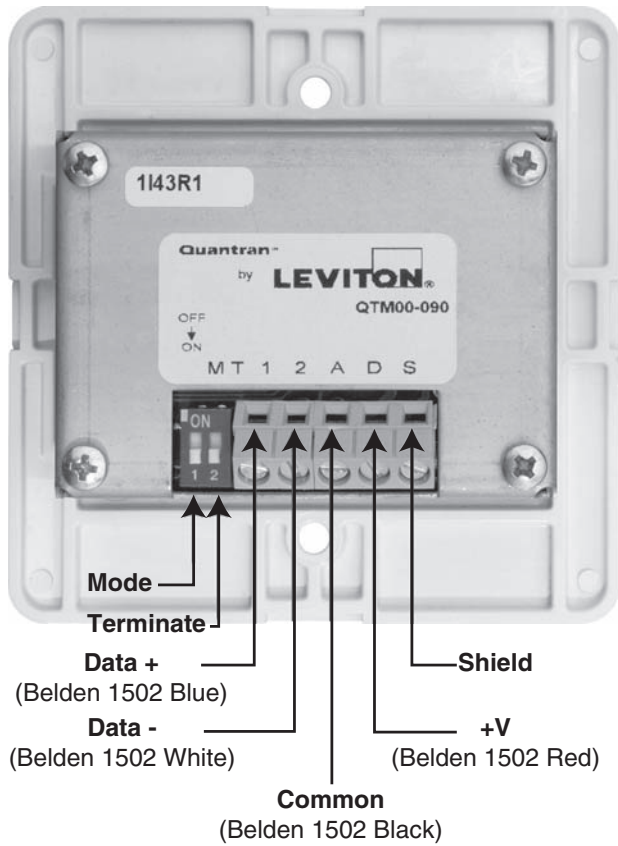


Table 1

| Pin # | Function | Notes |
|-------|----------|--|
| 1 | Data + | Connect on every station, use one conductor of a twisted pair |
| 2 | Data - | Connect on every station, use the second conductor of a twisted pair |
| 3 | Common | Connect on every station – even if not using power |
| 4 | +V | +12-24Vdc |

WIRING DIAGRAMS



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