

**PathWay® Model 4474 RJ45 CAT 6 Online/Offline Control System, Comprised of:  
 Model 4475 Keylock Master Controller, Model 4476 Red Box, and Model 4477 Black Box.**

**INTRODUCTION**

The PathWay® Model 4474 Cat 6 Online/Offline Control System consists of one Master Controller with one Keylock and two Remote Switches:

- Model 4475 is the Master Controller with (1) Keylock Master Controller RED/OFFLINE/BLACK 3-Position Switch.
- Model 4476 Red Box 2-Channel RJ45 Cat 6 Online/Offline Switch with Contact Closure and Position Feedback.
- Model 4477 Black Box 1-Channel RJ45 Cat 6 Online/Offline Switch with Contact Closure and Position Feedback.

The PathWay® Model 4477 Online/Offline switch with Contact Closure Remote allows the user to enable or disable connections between two separate devices via ports B1 and B2 of their respective channels.

The PathWay® Model 4476 Online/Offline switch with Contact Closure Remote allows the user to enable or disable connections between two pairs of separate devices via ports A1 and A2, C1 and C2 of their respective channels.

Both PathWay® Model 4476 and Model 4477 are controlled from the PathWay® Model 4475 Master Controller via one Master Keylock with a Choice of three positions, "RED", "OFFLINE", or "BLACK".

The Model 4475 Master Controller, as well as the two Online/Offline units Model 4476 and Model 4477, are each enclosed in a 1U, full rack size, all metal black chassis designed to provide EMI/RFI shielding and fit in a standard 19" rack.

Each Online/Offline switch may be controlled via a Remote DB9 port located on the rear of the unit. Switch position state may be attained via the front panel LED's or by a set of dry contacts on the Feedback DB9 port.

**SPECIFICATIONS: Models 4475, 4476, and 4477**

**SIZE:**

Width: 19" [48.3 cm] (19" full rack size)  
 Height: 1.75" [4.5 cm] (1U)  
 Depth: 8.32" [21.2 cm]  
 Weight: 4.2 lbs [1.9 kg]

**ENVIRONMENT:**

Operation Temperature: 0C to 50C  
 Storage Temperature: -40C to 85C  
 Humidity: 10% to 90% without condensation

**POWER REQUIREMENT:**

DC Voltage: 12VDC  
 DC Current: 180mA (peak), 40mA (nominal)  
 AC Power: 2W (peak), 1W (nominal)

**POWER SUPPLY:**

Power Supply 516682  
 Input: 100-240VAC, 50/60Hz, 0.2A  
 Output: 12VDC (regulated), 0.5A

**SIGNAL PORT RATINGS:**

Max Power: 450W  
 Max Voltage: 300VDC  
 Max Current: 1.5A



**FEATURES:**

- The switch ports are transparent to all data.
  - All (8) pins of the RJ45 interface are switched via break-before-make electromechanical relays.
  - Upon power up, control unit switches based on position of Keylock, and Online/Offline units switch based on state of Remote Contact Closure.
  - Upon power loss, units maintain present position.
  - Contact Closure Remote.
  - Front panel keylock control.
  - Contact Closure Feedback provides dry contact logic to monitor current channel status.
  - Front panel LED's display present position and power status.
- **Certified for Cat6 compliance.**

**Model 4475 Keylock Master Controller Specifications**

**Remote Port Interface**

(2) DB9 (F) Contact Closure Remote Ports with Custom Pinout.

**Front Panel Control and Indicators**

(3) Red LEDs (1) Keylock

**Model 4476 Online/Offline Switch Specifications**

**Signal Port Interfaces**

(4) RJ45 (F) Cat6 signal ports

**Signal Port Channels**

(2) Channels of RJ45 Shielded Cat6 A1/A2 C1/C2 ports for Online/Offline operation

**Signal Port Pins Switched**

RJ45: Pins 1-8

**Remote Port Interface**

(1) DB9 (F) Contact Closure Remote Port with Custom Pinout  
 (1) DB9 (F) Contact Closure Feedback Port with Custom Pinout

**Front Panel Control and Indicators**

(1) Red LED (1) Green LED

**Model 4477 Online/Offline Switch Specifications**

**Signal Port Interfaces**

(2) RJ45 (F) Cat6 signal ports

**Signal Port Channels**

(1) Channel of RJ45 Shielded Cat6 B1/B2 ports for Online/Offline.

**Signal Port Pins Switched**

RJ45: Pins 1-8

**Remote Port Interface**

(1) DB9 (F) Contact Closure Remote Port with Custom Pinout  
 (1) DB9 (F) Contact Closure Feedback Port with Custom Pinout

**Front Panel Control and Indicators**

(1) Red LED (1) Green LED

**PathWay® Model 4474 Control System:**

- Model 4475 Master Controller
- Model 4476 Red Box
- Model 4477 Black Box

