Electro Standards Laboratories
ADVANCED SYSTEMS DESIGN & SERVICES

MADE IN USA

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 seperate 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 seperate 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 postition 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" ful 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 condesation

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

PathWay MODEL 4474
RJ45 Cat 6 Online/Offline Control System

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

SPECIFICATIONS

Model 4474 Control System (Cat. No. 304474)
Model 4475 Keylock Master Controller (Cat. No. 304475)
Model 4476 Red Box (Cat. No. 304476)
Model 4477 Black Box (Cat. No. 304477)

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PathWay® Model 4474 Control System:

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

PathWay® Model 4475 (Keylock) Master Controller Rear Panel

Keylock
Red
(OFFLINE)
Black

DB9 — RED
DB9 — BLACK

DB9 (Pins 1,2)

Model 4476 Red Box Rear Panel

ONLINE — OFFLINE
C2 / C1
A2 / A1

FEEDBACK DB9
REMOTE DB9

RJ45 RJ45 — C2 / C1
RJ45 RJ45 — A2 / A1

Cat 6
Cat 6

DB9 Pins (8,9)
POSITION FEEDBACK
External Device

- Connection A1
- Connection A2
- Connection C1
- Connection C2

Model 4477 Black Box Rear Panel

ONLINE — OFFLINE
B2 / B1

FEEDBACK DB9
REMOTE DB9

RJ45 RJ45 — B2 / B1

Cat 6
Cat 6

DB9 Pins (8,9)
POSITION FEEDBACK
External Device

- Connection B1
- Connection B2