

Hybrid Repeater

All Series
Repeater
Hybrid Repeater Link-8.3
N/A

HYBRID REPEATER (MODEL # HR-REP-120)

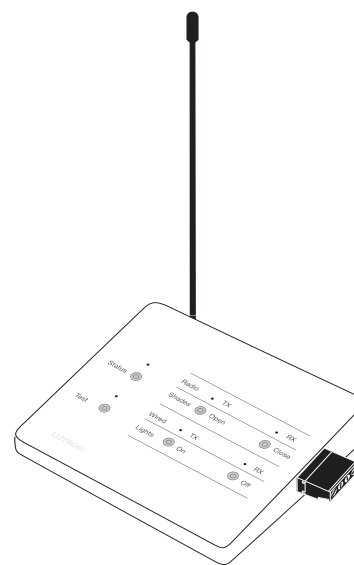
The HomeWorks® hybrid repeater adds RF coverage to an RF processor or an RF-capable wired processor. Each hybrid repeater covers approximately 2,500 square feet (232m²) of living space. Up to four repeaters can be added to each RF processor; up to five can be added to each RF-capable wired processor.

COMMUNICATION TO PROCESSOR

The hybrid repeater connects to 4 or 8 Series P5 processors on link 8. Additional repeaters (up to 5 repeaters per wired processor) must be within 60 feet (18 m) of another repeater for RF communication. Or, they may be wired in a daisy-chain configuration to the processor or another repeater. On a Wireless Series processor, repeaters (up to 4 repeaters per RF processor) may be wired in a daisy-chain configuration to link 8, or they can communicate using RF if within 60 feet (18 m) of the processor or another repeater.

RF SYSTEM COMMUNICATION

All HomeWorks RF devices must be located within 30 feet (9 m) of a hybrid repeater or an RF Processor. Multiple hybrid repeaters may be necessary to provide adequate coverage.



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(HR-REP-120)**

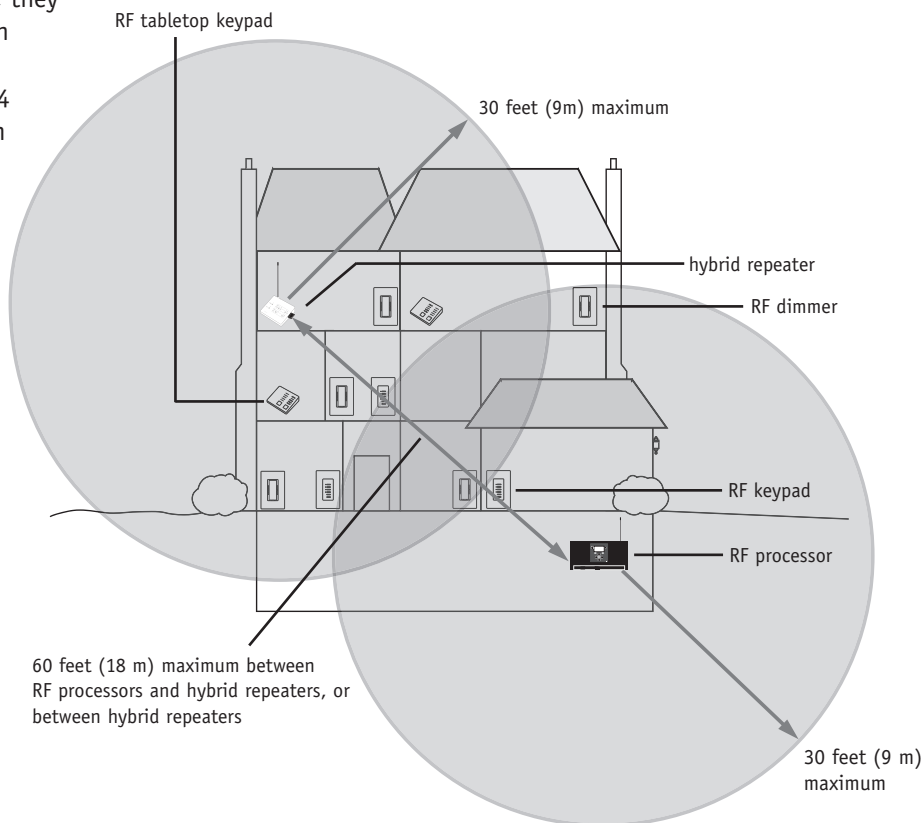


Figure 1 – RF Coverage

Hybrid Repeater (cont.)

Model Number	HR-REP-120: Provides additional RF coverage area to any wireless-capable processor.
Input Voltage	15 V $\overline{\sim}$; powered by included transformer or by link 8 on processor.
Regulatory Approvals	Hybrid Repeater: FCC, IC; Transformer: UL
Environment	Ambient operating temperature: 0 °C to 40 °C, 32 °F to 104 °F Ambient operating humidity: 0-90% humidity, non-condensing. Indoor use only.
Low-Voltage Wire Type	Two pair – one pair #18 AWG (1.0 mm ²), one pair #18-22 AWG (1.0-0.5 mm ²) twisted shielded – NEC Class 2 (IEC PELV) wire. Lutron® wire model # GRX-CBL-346S-500 may be used.
Low-Voltage Wiring Configuration	Daisy-chain. Termination not required. Total length of wire cannot exceed 1000 feet (305 m) per wire run.
Low-Voltage Connections	One 4-pin removable terminal block. Terminal block will accept up to four #18 AWG (1.0 mm ²) wires. Pin 2 should not be connected if using included transformer.
Addressing	Via the HomeWorks [®] software, using unique device serial numbers. Units must be installed prior to addressing. Counts as 1 of 4 repeater addresses on a wireless series processor, or as 1 of 5 on a 4 or 8 Series P5 processor.
Diagnostics	Test button provides RF communication check. LEDs show communication link status.
ESD Protection	Meets or exceeds the IEC 61000-4-2 standard.
Surge Protection	Meets or exceeds ANSI/IEEE standard c62.41.
Dimensions	See Fig. 2, below.
Mounting	See Fig. 4, pg. 106. Lutron provides a plug-in transformer with a 5-foot cord. The transformer requires a 120 V $\overline{\sim}$ receptacle.
Coverage	Approximately 2500 square feet (232 m ²) of living space.
Shipping Weight	1.5 lbs. (0.7 kg)
Keypad LED Count	15 Keypad LEDs (if powered via Link 8)

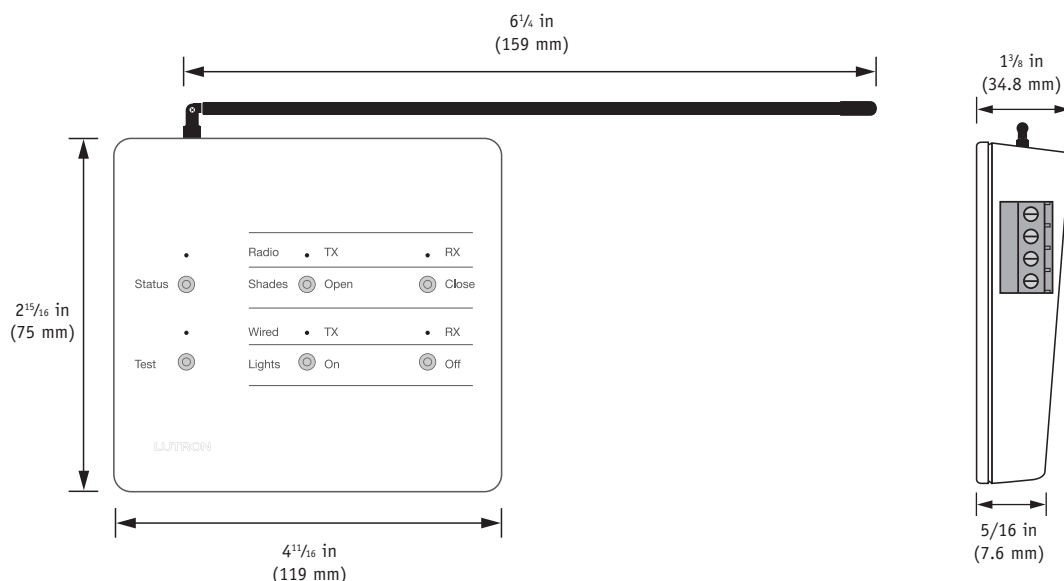


Figure 2 – Dimensions

Hybrid Repeater (cont.)

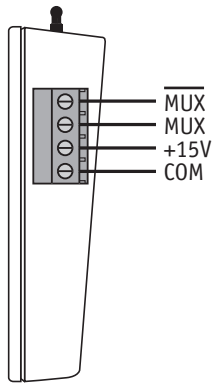
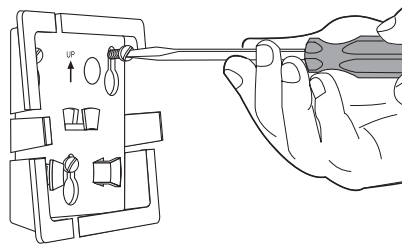
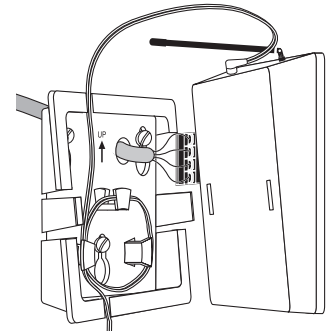


Figure 3 – Wiring Diagram



Attach mounting bracket to wall using the supplied screws and wall anchors.



Wrap excess power supply cord around the cord holder. Align device and snap onto mounting bracket.

Figure 4 – Mounting

STATUS LED

Indicates the status of the HomeWorks system. Note: When the hybrid repeater is powered, but has not yet been assigned an address from the HomeWorks software, the STATUS and TEST LEDs will be dimly illuminated.

STATUS BUTTON

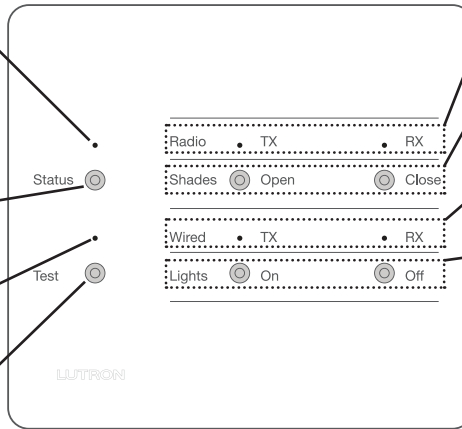
Used when addressing the hybrid repeater from the HomeWorks software.

TEST LED

A slow flash indicates RF communications tests are in progress.

TEST BUTTON

Activates RF communication tests. To activate the tests, press and hold the TEST Button until the TEST LED begins to flash. Note: For communication tests, the hybrid repeater, HomeWorks processor, and other RF devices must first be configured and addressed using the HomeWorks software.



RF TX/RX LEDs

Indicate RF link activity.

SHADES OPEN/CLOSE BUTTONS

Opens or Closes all RF Shades in the HomeWorks system.

WIRED TX/RX LEDs

Indicate wired link activity.

LIGHTS ON/OFF BUTTONS

Turns On or Off all supported RF dimmers and switches.

Figure 5 – Operation

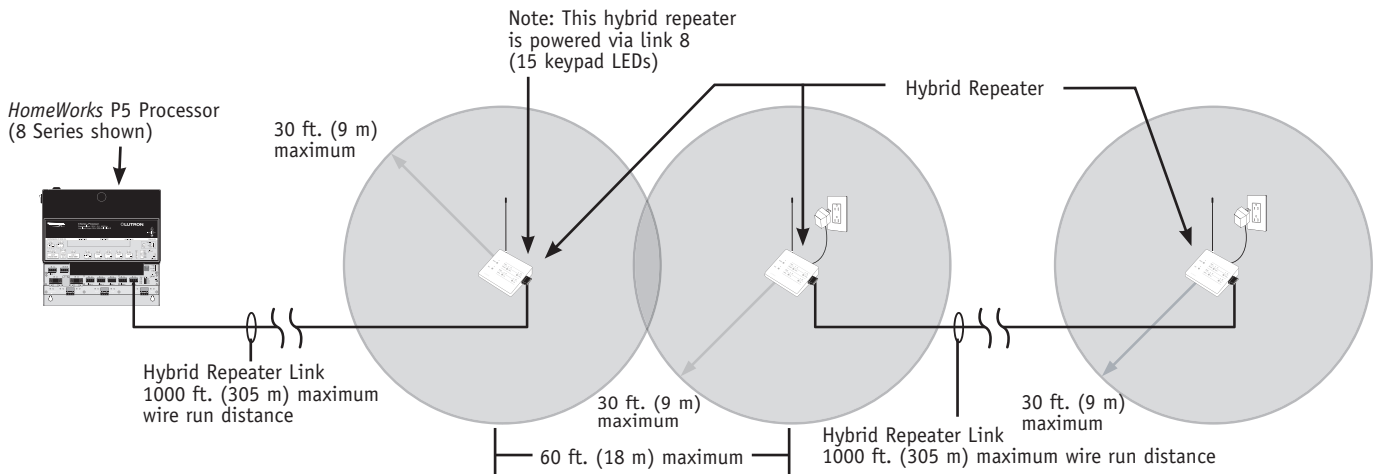


Figure 6 – Example Wiring and RF Configuration