English

HOMEWORKS QS

Hybrid Repeater
HQR-REP-120
9 V⎓ 300 mA
DC Adapter: T120-9DC-3-BL
Input: 120 V~ 60 Hz 6.5 W
Output: 9 V⎓ 300 mA
Power Consumption*: 0.6 W

Installation Instructions

Please Read Before Installing

Use these instructions to install the model number listed above.

Features

- Enables communication with wireless devices in a *HomeWorks* QS system.
- Activate button - activates the device and includes it as part of a particular RF link within a *HomeWorks* QS system.
- Up to four (4) Hybrid Repeaters per Processor Link.
- RS485 port to connect the first repeater to the *HomeWorks* QS Processor. Connect multiple repeaters together and power the Hybrid Repeater off the link.
- Test button - enters the system diagnostic mode. Verify that the Repeaters in a system are communicating effectively.

Important Notes

Environment
Ambient operating temperature: 32 °F to 104 °F (0 °C to 40 °C), 0% to 90% humidity, non-condensing. Indoor use only.

Codes
Install in accordance with all local and national electrical codes.

Cleaning
To clean, wipe with a clean damp cloth. DO NOT use any chemical cleaning solutions.

DC Adapter Power
NOTICE - Using a DC adapter not rated at the proper specifications could damage the repeater and possibly overheat the DC adapter. Use only the Lutron® DC adapter listed above.

RF Device Placement
RF devices must be located within 30 ft (9 m) of an RF signal repeater. Remote dimmers and switches are not required to be within a specific range of a repeater.

System Programming
Programming and activation (addressing) must be accomplished through the *HomeWorks* QS software.

Installation

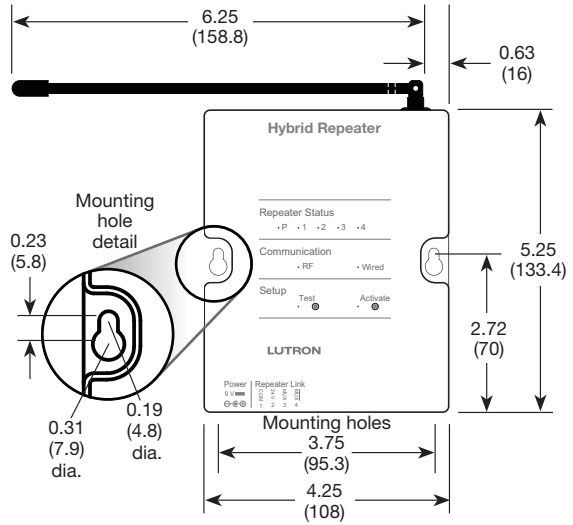
1. Find a suitable location for the Hybrid Repeater. The first Hybrid Repeater must be connected directly to the Processor using the RS485 port.
2. Mount vertically or horizontally, as shown in the **Mounting Diagram**, using two #6 (M3) screws (included). When mounting, allow 7 in (177.8 mm) clearance for the antenna and ensure convenient access to the RS485 connector and power plug. In order to achieve proper RF performance, do not mount unit in a metal enclosure.
3. Attach the DC adapter cord to the power jack on the Hybrid Repeater and insert the DC adapter plug into a 120 V~ 60 Hz receptacle. The DC adapter is not required if powering it through the RS485 port.

*Typical Power Consumption test conditions: one LED on and Repeater powered by the 9 V⎓ adapter supplied.

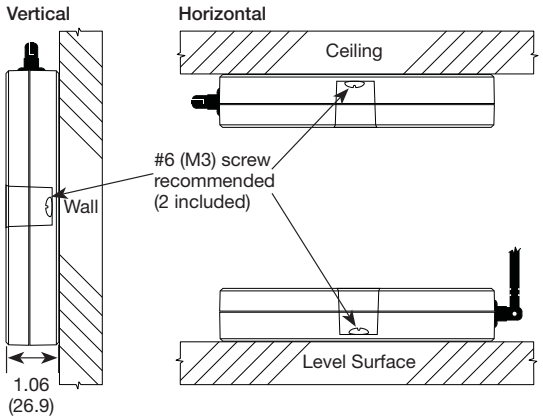
Technical Assistance:
U.S.A./Canada: 1.800.523.9466
Mexico: +1.888.235.2910
Other Countries: +1.610.282.3800
24 hours a day, 7 days a week.

Dimensions (front view)

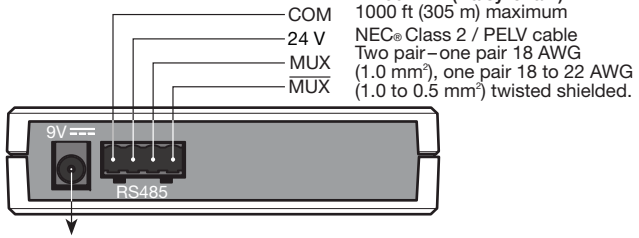
Measurements are in inches (mm).



Mounting Diagram (side view)



Connection



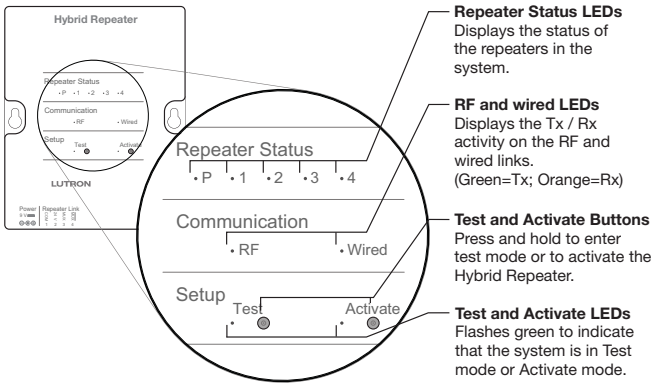
Wired Link (Daisy-chain)
1000 ft (305 m) maximum
NEC® Class 2 / PELV cable
Two pair–one pair 18 AWG (1.0 mm²), one pair 18 to 22 AWG (1.0 to 0.5 mm²) twisted shielded.

Power Jack (to DC adapter)
(*NEC* Class 2/IEC PELV)
(Model: T120-9DC-3-BL)

Troubleshooting Guide

Symptom	Probable Cause and Action
System Devices do not respond consistently to system events (e.g. keypads)	Power Not Present. The Hybrid Repeater can be powered either through a 9 V⎓ transformer or through the communication link from the Processor. • Unplug and re-plug in the power source and verify that the LEDs on the repeater turn on momentarily.
	Devices not programmed as part of a system. • Program the Hybrid Repeater and all other devices using the *HomeWorks* QS software.
	System devices are not within specified RF range. • Ensure that RF devices are within 30 ft (9 m) of a repeater. • Verify that all repeaters are within 60 ft (18 m) of another repeater.
	The repeater is not activated to the system. • Verify one of the "Repeater Status" LEDs are lit. If not, the device is in the Factory Default Settings mode and has not been activated into the system. Use the *HomeWorks* QS software to verify activation or re-active the device and transfer its database.

Operation



Returning a Hybrid Repeater to Factory Settings

Note: Returning a Hybrid Repeater to factory settings will erase all programming from it and will require the Hybrid Repeater to be reprogrammed into a system.

1. Triple tap and hold the Test button on the Hybrid Repeater. DO NOT release the button after the third tap.
2. Keep the Test button pressed on the third tap until all the LEDs start to flash red slowly (approximately 3 seconds).
3. Release the Test button and immediately triple tap it again. All the LEDs will flash red quickly. When the LEDs stop flashing and it beeps, the Hybrid Repeater has been returned to factory settings

Warranty: For warranty information, please see the Warranty enclosed with the product, or visit www.lutron.com/resiinfo

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