REPTR400
Wireless Repeater Kit

Overview

The Schlage REPTR400 Wireless Repeater Kit is a simple, all-in-one package solution for access control applications that require an extended wireless range. The Schlage REPTR400 includes an AD Series Panel Interface Module (PIM400-TD2) and an AD Series Wireless Reader Interface (WRI400). The PIM400-TD2 interfaces with most access control systems. The WRI400 gathers signals from around the door components and wirelessly transmits them back to the PIM400-TD2.

The REPTR400 extends the wireless range by receiving information on one radio frequency (RF) channel and retransmits it on another RF channel. Each REPTR400 can extend the wireless range of your access control system by up to 200 feet indoors or up to 1000 feet, line of sight.

The use of multiple REPTR400's in series allows an indefinite expansion of the RF signal between the access control panel and the Schlage AD Series Wireless Reader Interface of Schlage AD-400 electronic locks.

Use of the REPTR400 allows you to extend the reach of your access control system to remote locations without running wires, thus saving you time and money on installation.
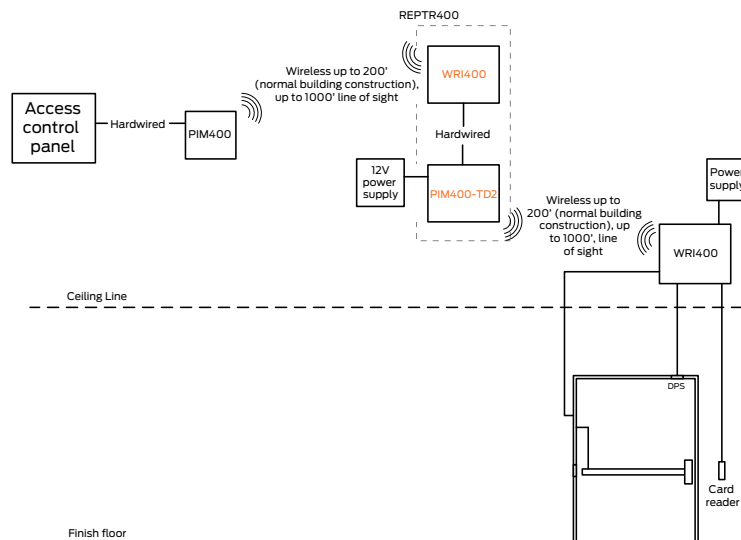
For example, the REPTR400 can be used for gate applications. The PIM400 is located inside of a building, up to 500 feet from the access control panel. A remote antenna (sold separately) can be wired into the PIM400 and installed on the exterior of the building. The REPTR400 can be installed at the gate, up to 1000 feet away, with a clear line of sight, connecting the card reader and locking hardware to the WRI400. This solution eliminates the need for considerable trenching and the installation of an access control panel at the gate location, while giving the access control system real-time information at the remote gate.

Features and benefits

- Convenient kit includes the WRI400 and PIM400-TD2

- Extends the reach of your access control system to remote locations without running wires

- WRI400:
  - 2 form C relay outputs –strike and auxiliary
  - Each RF transmission is encrypted with AES-128 bit keys
  - Reader interfaces support– Wiegand (data1/data 0) up to 255 bits and magnetic stripe (Clock & Data) up to 255 bits
  - UL 294 certified

- PIM400-TD2:
  - 900 MHz spread spectrum RF technology for long range, reliable communications
  - Supports up to two AD Series wireless devices
  - Automatic linking to remote wireless access points with 10 channel frequencies to select from enables easy commissioning
  - AES-128 bit encrypted spread spectrum transmissions
  - UL 294 certified

PIM400-TD2 specifications

Frequency range	902-928 MHz
Modulation	900 MHz spread spectrum, direct sequence, 10 channels
Communication	Up to 200 ft (normal building construction); up to 1000 ft, clear line of sight
Operating temperature	-31º to 151ºF (-35º to 66ºC)
Humidity	0% to 100% condensing
Power supply	12 VDC or 24VDC (12 VDC power supply included)
Dimensions (H x W x D)	7.1" x 7.1" x 3.0" (18.0 cm x 18.0 cm x 7.6 cm)
Weight	1.25 lb (.56 kg)
Certifications	NEMA 1, 4, 4X, 6; UL 294; FCC Part 15; RoHS; Industry Canada (IC)

Note: There are many other applications that use different wireless access points; this is one example of how a REPTR400 can be used.

WRI400 specifications

Frequency range		902-928 MHz
Modulation		900 MHz spread spectrum, direct sequence, 10 channels
RF interference avoidance		Optional dynamic channel switching
Transmission/encryption		AES-128 bit key (optional)
Data rate		RF: 40 kbps
Credential verification time*		< 1 second*
Communication range		Up to 200 ft (61 m), normal building construction Up to 1000 ft (305 m), clear line of sight (See ANT400-REM data sheet for increasing distance)
Power supply requirements		12 VDC or 24 VDC; 500 mA maximum current
Connector cable specifications	DC power input	18AWG, 2 conductor (Belden 8760 or equivalent), up to 1000 ft (305 m)
	Credential readers (x2)	Data signals: 22AWG, 6 conductor (Alpha 1296C or equivalent) up to 500 feet (152 meters) Reader tamper signals: 18AWG, twisted pair shielded (Beldon 8760 or equivalent) up to 500 feet (152 meters)
	Strike/aux relay outputs	18AWG, 2 conductor (Belden 8760 or equivalent), up to 2000 feet (610 meters)
	Request-to-enter and -exit inputs	18AWG, 2 conductor (Belden 8760 or equivalent), up to 2000 feet (610 meters)
Relay output tolerances	Strike output relay	Form C relay; 6 amps at 24 VDC or 6 amps at 120 VAC or 3 amps at 240 VAC
	Auxiliary output relay	Form C relay; 2 amps at 24 VDC or 0.5 amps at 120 VAC
Operating temperature		-31ºF (-35ºC) to 151ºF (66ºC)
Operating humidity		0 - 100% condensing
Dimensions (H x W x D)		10.43" x 7.28" x 3.79" (26.49 cm x 18.49 cm x 9.63 cm)
Certifications		NEMA 1, 4, 4X, 6; UL 294; FCC Part 15; Industry Canada (IC); RoHS
Optional accessories		593P1-12 DC - power supply for Panel Interface Module (PIM)

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