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. It can be used for indoor or outdoor applications enabling the integration and management of an opening too distant or difficult to reach via hard wires. Ideal applications include remote doors, historic buildings, gates and elevators.

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. Its function is to wirelessly communicate with either an AD-400 Series wireless lock on the door or a separate WRI400 wired to other electronic components around the door. The PIM400-TD2 receives data via one radio channel and communicates it to the kit’s WRI400 unit to be transmitted via another channel. The additional distances covered can be up to 900 ft. within a normally constructed building or up to 2500 ft. where there is direct line of site.

To extend range further for areas such as a remote gate or for use with a portable reader, a remote antenna (sold separately) can also be employed. If your distance needs suggest the use of an antenna, contact Allegion technical service for assistance.

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
- Up to two REPTR400s can be added in a series (use only one for applications involving mag stripe credentials)
- 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
  - 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: -31°F to 151°F (-35°C to 66°C)
- Humidity: 0% to 100% condensing
- Power supply: 12 VDC or 24VDC
- 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)

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 (WRI requires less than 100ms. Response time does not include latency time of ACP. Each REPTR400 Kit adds 250ms delay)
- Communication range: Up to 200 ft (61 m), normal building construction
- 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 (Belden 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: -31°F (-35°C) to 151°F (66°C)
- Operating humidity: 0% to 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)

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

About Allegion

Allegion (NYSE: ALLE) is a global pioneer in safety and security, with leading brands like CISA®, Interflex®, LCN®, Schlage®, SimonsVoss® and Von Duprin®. Focusing on security around the door and adjacent areas, Allegion produces a range of solutions for homes, businesses, schools and other institutions. Allegion is a $2 billion company, with products sold in almost 130 countries. For more, visit www.allegion.com.