



VP1 Dual-Mode Proximity Reader and Door Controller  
ARCHITECTURAL AND ENGINEERING SPECIFICATION  
Access Control Remote Devices

DEVICES

1. MANUFACTURER

A. VIZpin Inc.  
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B. This device shall be manufactured by a firm whose quality system is in compliance with the I.S. /ISO 9001/EN 29001, QUALITY SYSTEM.

2. BLUETOOTH PROXIMITY READER AND DOOR CONTROLLER DESCRIPTION

A. The device specified is a dual-mode proximity reader and door controller. It will respond to authorized Bluetooth requests by activating a control relay or transmitting a user selectable Wiegand data stream.

3. PROXIMITY DEVICE REQUIREMENTS

A. The device shall work with any authorized 2.1 (Classic) and Bluetooth 4.0 (Smart/Low Energy) device including tablets, FOBs and iPhone, Android, Windows, Blackberry and flip (feature) phones.

B. The device shall have a read range of up to 30' (10M).

C. The device shall have the ability to adjust the read range below 3" (1M).

D. The device will still operate when mounted behind walls, in ceilings or within enclosures that are not 100% RFI/EMI isolated.

E. The device shall not require an Ethernet or Wi-Fi connection.

F. No security CREDENTIAL information will be stored on the device.

G. The device shall have the ability to convert an authorized Bluetooth device's signal to a Wiegand protocol signal.

H. The device shall have user configurable solid-state relay.

I. The device shall have the ability to simultaneously or independently activate 1 or more auxiliary "open collector" outputs.

J. The device shall have the ability to transmit RS485 signals.

K. The device can be modified to accommodate any Wiegand format data stream.



- L. The device will not require a proprietary CREDENTIAL and will work with any Bluetooth device regardless of the manufacturer.
- M. The device shall be field configurable to activate the relay or activate 1 or more auxiliary outputs or activate 1 or more RS485 devices or output a Wiegand signal when:
  - 1) Any authorized active CREDENTIAL is in range or
  - 2) Any authorized active CREDENTIAL is in range and a valid PIN number has been entered or
  - 3) Any authorized active CREDENTIAL is in range and an external trigger is received or
  - 4) Any authorized active CREDENTIAL is in range and an external trigger is received and a valid PIN number has been entered
- N. The device shall have an external output to provide visual and/or audible indication of activation (i.e. buzzer or LED) when the device is mounted out of site or is inaccessible.
- O. The device shall have a user configurable piezo-electric buzzer that can be disabled, to sound momentarily when the device is activated or to sound continuously when the device is being activated.
- P. The device shall have a built-in Administration Button that can be used to:
  - 1) Deactivate (lock) the device when it is activated (unlocked)
  - 2) Reset the reader
  - 3) Perform various administrative functions
- Q. The device shall have an external output to emulate the Administration Button for when the device is mounted out of site or is inaccessible.
- R. The device shall have an input for external triggering of the device by other inputs like a motion detector, request-to-exit switch or receptionist door button.
- S. The device shall have an input for an external sensor such as a door/gate status switch or alarm panel output to be used in the logic of when to activate or deactivate the device.
- T. The device shall have an internal audit trail of at least 1,500 events that can be exported to other devices/systems.
- U. The device shall utilize a cloud-based service to remotely manage access control.
- V. The device shall be designed for installation on a door mullion and may be directly mounted to a metal surface.
- W. The device shall be available in a charcoal gray, polycarbonate/ABS composite enclosure suitable for indoor applications.



4. The device shall have the following specifications

A. ELECTRICAL SPECIFICATIONS:

- 1) Voltage (input): 12 VDC
- 2) Current (input): 20 mA average; 50 mA peak
- 3) NO Relay (output): max. 750 mA @ 12/24 VDC/VAC

B. MECHANICAL SPECIFICATIONS:

- 1) Dimensions: 4.0 in. x 1.3 in. x 0.8 in. (101mm x 34mm x 20mm)
- 2) Weight: 1.6 oz (46 grams)
- 3) Cabling: Minimum 22 AWG (0.8 mm) stranded with overall shield.

C. ENVIRONMENTAL SPECIFICATIONS:

- 1) Operating Temperature: -40°C (-40°F) to +85°C (+185°F)
- 2) Relative Humidity: 0% to 95%, non-condensing
- 3) IP Rating: IP 54

D. CERTIFICATIONS and APPROVALS

- 1) FCC & CE