

## Technical Support



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Technical help is available: Monday - Friday from 07:00 - 19:00 (GMT)  
Saturday from 09:00 - 13:00 (GMT)

Documentation on all Paxton products can be found on our website - <http://www.paxton.co.uk/>

## Suitability

|                          | <b>P200</b>   | <b>P200E metal mount</b>  |
|--------------------------|---|---|
| Wet environments         |  |  |
| Mounted on metal surface |  |  |
| Security-sensitive doors |  |  |
| Readers mounted together | <b>500 mm</b><br>between readers  | <b>500 mm</b><br>between readers  |

## Overview

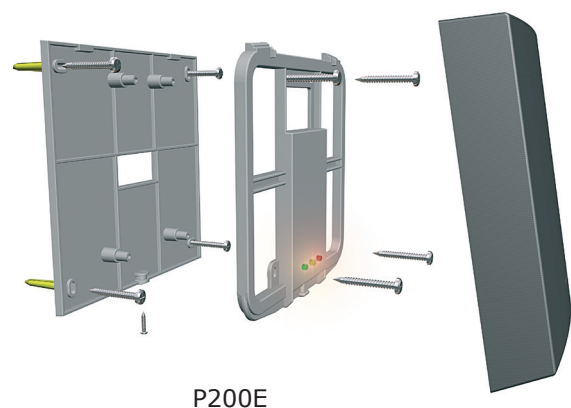
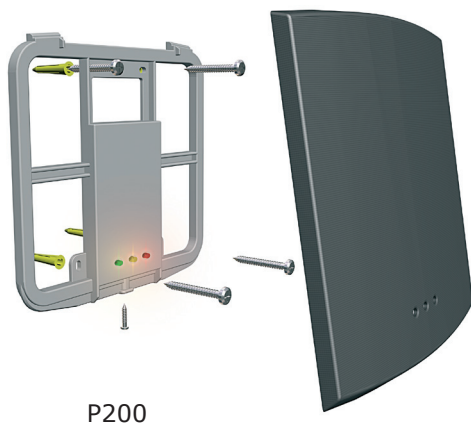
The P200 is a standard P series reader with a much larger coil to give an increased read range with hands free tokens. This larger coil makes it unsuitable for mounting the reader directly onto metal surfaces, posts, etc as the radio field becomes distorted and so the P200E (External) has been designed with the reader coil spaced away from the backplate.

The read range of both units is similar to the standard P series reader with passive tokens but is greatly extended (up to 2.5 metres) when used in conjunction with a hands free interface, tokens and keycards.

## Reader covers

The P200 comes supplied with Black and White covers. The P200E is only available in Black.

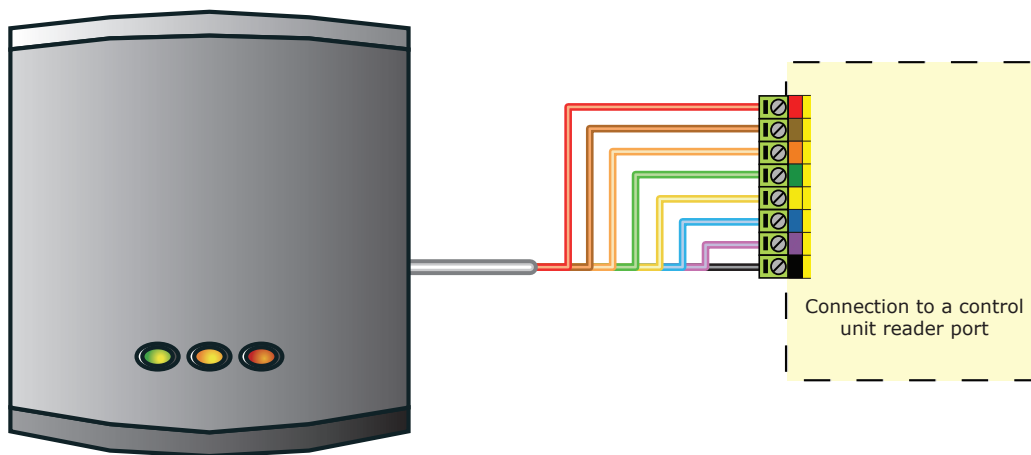
## Fitting



## Cable extensions

Readers can be extended using Belden CR9540 10-core overall screened cable to a maximum of 100 metres.

## Wiring



WHITE labelled control units provide 5V at the Red terminal. The Red power wire for the reader should therefore be directly connected to the 12V supply terminal.

## Hands free interface

The interface should be positioned as close as practical to the reader. A distance from interface to reader of 10 to 15 meters can be achieved but wireless technology is susceptible to environmental factors and so if problems are experienced it may be necessary to move the interface closer to the reader.

The hands free interface should not be housed in a metal enclosure as it contains the main receiver aerial. Sticky feet allow the interface to be stuck to the ACU wiring label in a PSU plastic housing.

## Connection modules



### Reader junction box (325-020)

This module can be used to provide a connection point for the reader RJ45 plug. The terminals on the module are then wired colour for colour to the controller.

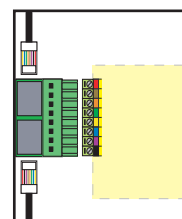
Alternatively, the reader can be wired directly into the screw terminals of the control unit by first cutting off the RJ45 plug and stripping back the wires in the cable.

### Reader port module (325-030)

This module may be purchased separately to speed up the installation and replacement of readers.

The reader port module is designed to convert the standard reader ports on Switch2 and Net2 controllers to accept one or two RJ45 connections. Pull off the screw terminal block from the reader port and simply replace it with this module.

Further information on how to purchase Installer Tools is available at:  
<http://paxton.info/841>



## Technical Help

Here is the list of topics about this product that receive the most technical support enquiries. We list them here to help you speed up the installation and trouble shooting process.

### 1 - Readers/Keypads not working.

- Software settings - Confirm that the settings of the reader or keypad are correct.
- Connections - Check the wiring and integrity of the connectors. If possible, test this reader on the other port.
- Cable - Belden 9540 should be used to extend the reader cable (100 m maximum). Twisted pair alarm cable should not be used. To confirm that an extended reader cable is not faulty, wire the reader directly to the port.
- Supply voltage - Confirm that the voltage is within specification. (see table)
- User token - Confirm that the user token used for testing is OK by presenting it to a known working reader.
- Interference - Confirm whether the reader works when tested 'in hand' and not mounted on the wall. Ensure PROXIMITY readers are not mounted back to back and there is no interference from other RF devices.

### 2 - Readers / Keypads - Extending cable.

Only Belden CR9538 / 9540 can be used for cable extensions. CR9538 8 core up to 25 m, CR9540 10 core up to 100 m (maximum). With CR9540, the two additional cores should be used to double up the power.

### 3 - Net2. What to do if a user has no access - Check the reader LED's when a card is shown.

- No LED's - the reader has no power.
- No change in display - try the card on a known working reader. If there is still no response, replace the card.
- Green LED flashing when a card is presented; check relay 1 LED to check for activity and also the lock wiring.
- Red LED is flashing when a card is presented; check the validity of the user at the PC.  
Check user's access level and ensure they should have access by clicking on Current Validity.  
Check the 'Valid Until' date and confirm this has not expired.
- Reinstate the ACU from the doors screen. Select the ACU's you wish to reinstate and then click OK.

### 4 - Switch2 - Adding an additional card pack.

You need to be in possession of the original enrolment card. Present the original enrolment card to the reader and the Amber LED will flash, Green & Red LED's will be off, then present the Enrolment card from the new card pack; the reader will beep and all LED's will be lit. The additional cards will now be valid. Repeat this with each reader and with any additional card packs. Any valid enrolment card can be used to add further packs. This is the same for enrolling function card packs onto a system.

### 5 - Switch2 - How to reset the controller.

1. Disconnect the power and remove the wires from the Green and Mauve terminals.
2. Insert a wire link between the Green and Mauve terminals.
3. Reconnect the power (the unit will beep 4 times).
4. Disconnect the power and remove the link wire, reconnect the Green and Mauve wires.
5. Reconnect the power (the unit will beep 3 times per second). The unit is ready to be enrolled.

| Specifications                     |        |        |                  |
|------------------------------------|--------|--------|------------------|
| Electrical                         | Min    | Max    |                  |
| Voltage                            | 10V DC | 14V DC |                  |
| Current                            |        | 140 mA |                  |
| Carrier frequency                  |        |        | 125 kHz          |
| Clock and data bit period          |        |        | 600 µs           |
| Environment                        | Min    | Max    |                  |
| Operating temperatures - all items | -20 °C | +55 °C |                  |
| Waterproof                         | IPX7   |        | Outdoor Use      |
| Read Range                         | Token  | Keyfob | Hands Free Token |
| P200                               | 80 mm  | 50 mm  | 2500 mm          |
| P200E (metal mount)                | 80 mm  | 50 mm  | 2000 mm          |
| Dimensions                         | Width  | Height | Depth            |
| P200                               | 200 mm | 200 mm | 18 mm            |
| P200E (metal mount)                | 205 mm | 205 mm | 42 mm            |

# CE0168

The declaration of conformity is available on request. Contact details are provided at: <http://paxton.info/596>

Paxton Access Ltd hereby declares that this product is in conformity with all the essential requirements of Directive 1999/5/EC. This equipment is intended for use in all EU and EFTA countries and all other countries worldwide.

This product is not suitable for retail sale. All warranties are invalid if this product is not installed by a competent person.