

INTERCOM INSTALL GUIDE



This guide provides the essential information for installing your Commtel Optimus intercom.

To help you and your customer get the best out of the system, you can find more information: [Click here](#).

Pre-installation Notes:

- Before installation, carry out a site signal test to confirm there is stable 4G coverage at the mounting location. Use a 4G signal analyser with the SIM card being used in the system.
- Position the antenna where it can achieve the best available signal while remaining protected from accidental damage or vandalism. Maintain a minimum distance of 200mm from the human body.
- The auxiliary input is for volt-free exit buttons only. Do not connect powered devices or non-volt-free contacts, as this may damage the system.
- Always power the unit down before inserting or removing the SIM card, or connecting and disconnecting the antenna.
- Change the default PIN settings during commissioning to help secure the system before handover.

Installation Instructions

Mount the back box to the wall, pillar, or post, ensuring that:

- Any swarf or debris is removed from inside the back box – the speaker has a magnet and may attract metal filings.
- The unit is sealed to prevent water ingress – use electronic grade silicone sealant to seal around all rear entry holes.
- Antenna and power leads are secured using the black plastic gland supplied (M20 x 1.5mm, standard electrical thread).
- Antenna and power leads have a loop before entering the back of the unit to prevent water ingress along the cable.

Make Connections:

- Insert the Micro SIM card into the SIM card slot.
- Connect the antenna to the MMCX connection (push on/pull off).

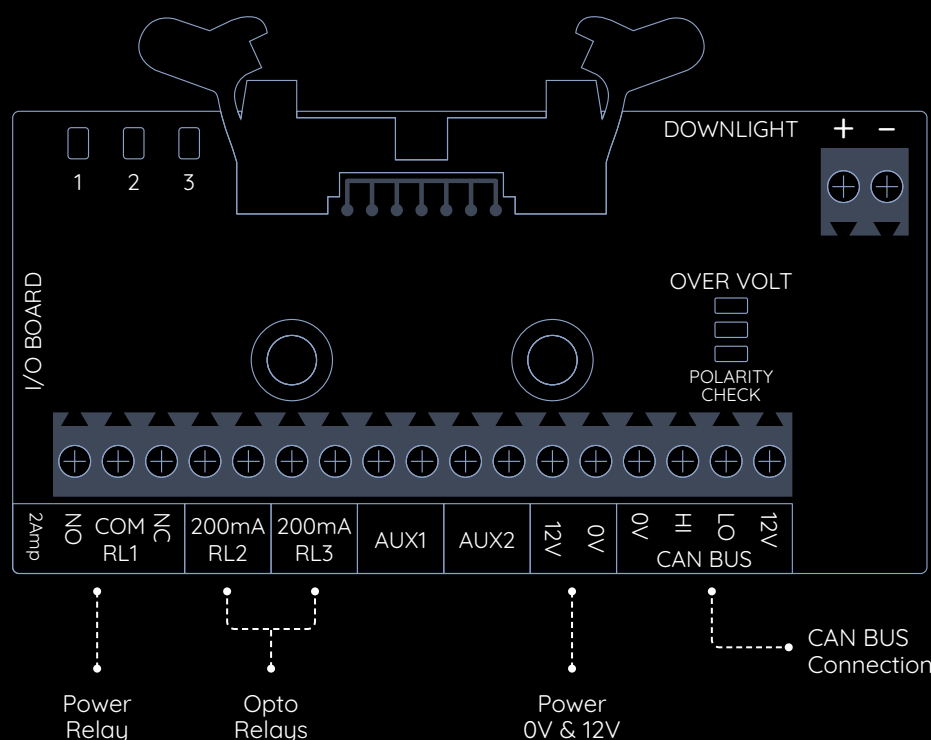
Wire Relays and Aux Inputs:

- Connect the relays (Power Relay and Opto Relays) to your entry equipment.
- Wire any accessories into the Aux inputs (AUX1, AUX2).

Connect Power:

- Connect power to the unit. The unit should begin its boot-up sequence.

I/O Board Connections



Connecting a Commтел Telpad

If you are connecting a Telpad to this system, it must be wired into the CAN BUS section of the I/O board. Use a 4 core cable, connecting to the following terminals: 0V, 12V, HI & LO

We're Here to Support You

If you require further guidance, please don't hesitate to reach out to our trusted technical support team. We're committed to ensuring a smooth setup process.

You can reach us by calling +44(0)1306 710120 – Option 1, or email: support@commтел.io

PCB & I/O Board – LED Status Indicators

LED Name	Board	LED Action	Indicates
Network Status LED	Main PCB	Off (No Light)	Disconnected
		On (Solid Blue)	Trying to connect
		Blinking Blue	Connected
'OK' LED	Main PCB	Flashing Green	Signal RSSI: 1 flash = 1 bar. Also shows correct antenna connection, correct SIM card installation, and signal strength (RSSI). Flashes with a yellow tint when receiving a text message.
Polarity Check LED	I/O Board	Solid Green	Polarity OK
		Solid Red	12V & 0V crossed over
		Solid Yellow	Over voltage (Over voltage shutdown @ 16V)

App Initialisation and Configuration

The Commтел Optimus systems use dedicated apps for both programming and end-user control, designed to give you intuitive management and configuration.

Commтел CONFIG App (The Programming App)

- The Commтел CONFIG app provides easy remote programming to fully control and configure your system.
- To start programming the system, you will need the intercom's serial number, SIM telephone number, and an assigned name.
- For user instructions within the app, click the help icon in the top right of the screen.



You can download the Commтел CONFIG app and Commтел CONTROL app for free, from Android or iOS app stores.

Commтел CONTROL App (The End User App)

- Your customers can control the entry equipment via the Commтел CONTROL app, which works using SMS commands.
- You will need to program your customers' mobile number into the unit as an authorised dial to open number for the Commтел CONTROL App to work.
- For user instructions within the app, click the help icon in the top right of the settings screen.
- Please ensure customers pay particular attention to the contents of the safety message, which can be accessed in the bottom left corner on the app's front page.