

Lockdown Systems



A lockdown system that works for you!

GJD has partnered with a selection of technology partners to create a complete solution that will initiate a lockdown system and a complete support process to recognise and action any perceived threats.

What is a lockdown system?

A lockdown system is a security protocol or set of procedures designed to quickly secure a building, facility, or area in response to an immediate threat, such as an intruder, terrorist activity, or other dangerous situation.

The goal of a lockdown system is to protect occupants by restricting movement, securing entry points, and preventing unauthorised access. This can involve locking doors automatically, sending alerts to occupants, disabling access control systems, and notifying law enforcement. Lockdown systems are commonly used in schools, hospitals, offices, and public spaces to provide rapid protection during emergencies.

Following Parliament's passing of the Martyn's Law Act, the demand for lockdown systems has grown, especially among venues that cater to more than 200 people.

Martyn's Law

Martyn's Law, officially known as the Terrorism (Protection of Premises) Bill, is a proposed UK legislation aimed at improving public safety by placing a legal duty on certain venues and public spaces to implement measures against terrorist threats.



Named after Martyn Hett, a victim of the 2017 Manchester Arena attack, the law would require businesses and organisations responsible for venues to assess the risk of a terrorist attack and put proportionate security measures in place, such as staff training, emergency plans, and improved security systems. The goal is to enhance preparedness and response to potential attacks, helping protect the public in crowded places.

The Technology

GJD's LX LoRa is the central wireless system of our lockdown system, integrating seamlessly with a range of technologies. This creates a modular lockdown system, meaning that you can pick and choose the components that meet your requirements, giving you a bespoke solution that will directly meet your needs.

LX LoRa Connect

- ▶ The LX LoRa Connect Gateway is the central command hub of GJD's LX LoRa Connect system, making it the core component of our lockdown system. The Gateway is a wireless receiver and CPU which provides a communication range up to 10 km. It is able to connect to 500 devices without the need for expensive data cables and localised mains power. It can be quickly installed, maintained and moved to suit eliminating logistical challenges prevalent with other more fixed solutions.

Professional security installers can utilise the Gateway's relay outputs and alarm inputs, providing reliable and customised solutions for specific project requirements. It provides easy and direct integration with IP to VMS, enabling PTZ camera control, automatic video recording, voice enunciation and object positioning.



Panic Buttons (PABs)

- ▶ The GJD Lockdown system offers two different solutions to best suit the installer's needs. They can either use the GJD I/O module to integrate with third-party devices such as door contacts, or fixed-position push buttons/ break glass buttons.



LX LoRa Connect I/O module

- ▶ Part of the LX LoRa Connect system, the I/O Module is an essential tool for installers where a site needs seamless integration. With a wireless range of up to 10km, the I/O module provides extensive coverage. Its single input and output offer optimal flexibility for diverse applications, allowing effortless integration with third-party devices.



These can be two-way transmitted across the LX LoRa Connect channel, ensuring all related devices are connected and working through a single, easily accessible and user-friendly platform.

LX LoRa Connect PAB

- ▶ Originally designed by GJD for personnel use within high-security sites in central London, the personal panic button is now being deployed globally as part of the GJD lockdown system. The panic button allows the user to activate a lockdown procedure or, if desired, call for assistance if they feel threatened or under duress.

The button can be belt-mounted or on a lanyard and is assigned to each individual user. This allows for quick identification of the operative requiring help and the location of the activation.

GJD's 'Mushroom' fixed-position press button is a more traditional style. It can be wall or desk-mounted in an easily recalled location. Its use of LoRa technology means it can be quickly added to an existing system and requires next to no maintenance outside of annual servicing.

D-TECT LX

- ▶ The D-TECT LX is a key component of GJD's LX LoRa Connect system. It's an aesthetically pleasing, external wireless PIR motion detector, whose activation can be used to control cameras, interface to intruder alarm panels and communicate with GJD's lighting control systems.

It has a wireless transmission range up to 10 km, as well as a programmable motion detection range of up to 30m x 30m.



C3R Technologies



C3R Technologies provides comprehensive IoT networks and sensor visualisation solutions through the Meteora platform, enabling end-to-end monitoring and data management for businesses across multiple industries.

C3R's fully integrated solutions deliver measurable value through enhanced asset security, improved operational efficiency, and significant cost savings. The Meteora platform offers customisable monitoring capabilities that seamlessly integrate with GJDs product line, providing real-time insights and automated data management.

Meteora Software

Developed by our partners C3R Technologies, Meteora software allows for full location mapping of a site or designated geographic area. It can actively monitor all connected devices with alerts, actions and instant visual feedback.

Additionally, the Meteora Software allows for:

- ▶ a 'deep dive' into building maps and plans to determine where and what action is needed
- ▶ multiple building or site integration in a single platform
- ▶ integration to multiple third party and non-security systems such Building

Monitoring Systems (BMS) focusing on energy usage, Co2 monitoring, site occupancy etc through to full video management security systems and access control to produce alerts and announcements, obviously including lockdown procedure

TOA

As a specialist manufacturer in the field of sound, TOA provides innovative products that are currently in use in thousands of locations including schools, concert halls, shopping malls, skyscrapers, airports and sports stadiums.

Backed by the years of innovation and expertise, TOA have now created a system that specifically supports the lockdown procedure.

The TOA solution can be added to an existing Public Address system to provide pre-recorded messaging across the school site and distribute lockdown messages to keep attendees safe.

The IP-AIPG gateway can be triggered by any local switches or by GJD LoRa-linked switches, and once triggered, can play a warning message for up to 60 minutes. Once the Lockdown incident has finished, the End-of-Lockdown messages can be distributed over the public address system from either a microphone or a different message stored on the IP-AIPG gateway.



If a school or college requires a new system, the TOA VM-2000 or VM-3000 series multi-zone amplifiers can be combined with the IP-AIPG to provide a relatively low-cost solution. Messages can be triggered across the campus using the GJD LoRa-linked switches and RF hub. This enables the campus to trigger Lockdowns from buildings that are a long way from the main amplifier and IP-AIPG gateway.

When a school or college would like to use the existing network infrastructure to set up a lockdown system, then the IP-AIRM remote microphone, when used in conjunction with the IP-A1AF (IP to line level convertors) and 'local' 100V line amplifiers, can provide multiple zones

Each IP-A1AF, when combined with the local amplifier (typically an A-2000DD series amplifier), will create a zone that can be 'paged' locally during normal operation or connected for lockdown messaging.

If a lockdown trigger is received from any local connected switch or the GJD LoRa-linked switches, a site-wide message stored within the IP-AIRM can be distributed over the IP network to the local 100V line amplifiers.

Next Steps

If you, or your clients are looking for a complete and integrated lockdown system then call: +44 (0) 1706 363 998 or email sales@gjd.co.uk and one of our knowledgeable team members can book a meeting with you to understand your needs and requirements and work with you to create a solution that is right for your requirements.

Contact Information

GJD Manufacturing

Unit 2, Birch Business Park,
Whittle Lane, Heywood,
Greater Manchester,
OL10 2SX, UK

Sales: +44 (0) 1706 363 998

Technical: +44 (0) 1706 363 990

Email: sales@gjd.co.uk

