



FIRE ALARM MONITORING · ANY MAKE OF PANEL

Every fire panel on one screen. Fire alarms first, every time.

AlarmPulse Command Centre brings fire alarm panels of any make onto one web console, for one building or a whole estate. Operators follow an alarm from the map down to the exact device on its floor plan, see what to do, and the right people are told if nobody responds. A fire is never hidden: fire alarms travel ahead of faults, and nothing shows "all clear" while a panel isn't heard.

5

ways to connect a fire alarm panel of any make

≤1.2s

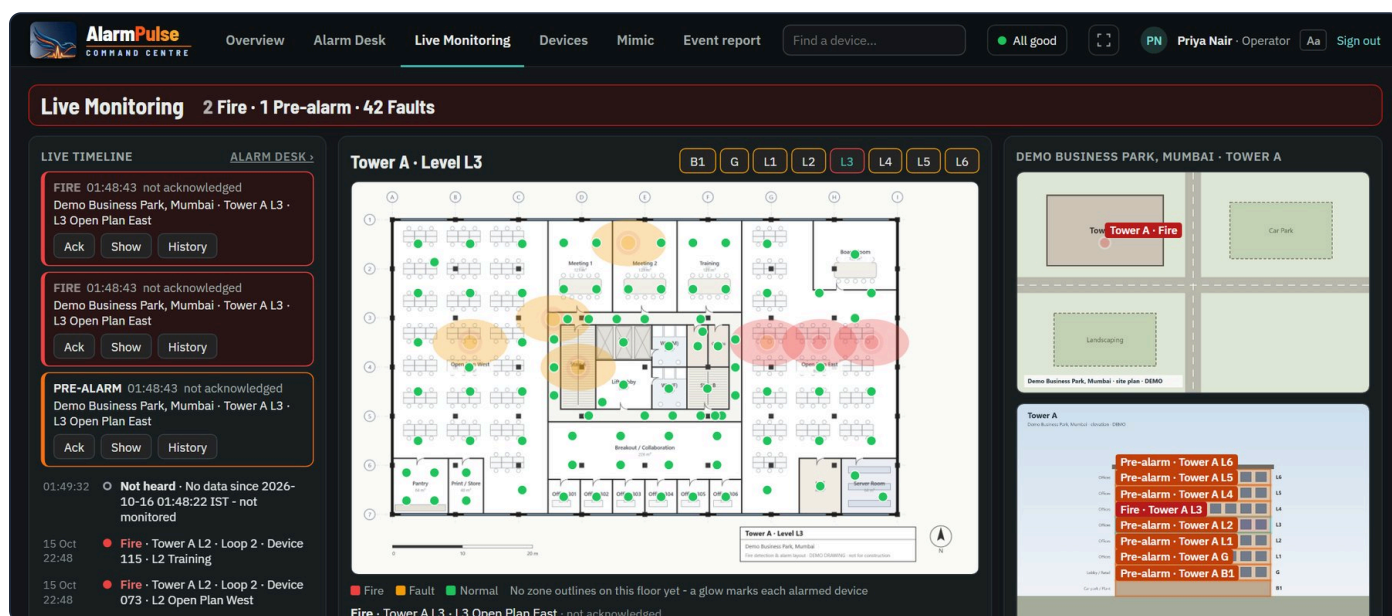
fire alarm on screen, p99, during a fault storm*

~400

events per second sustained*

0

events lost across link cuts and restarts*



Live Monitoring. The floor in alarm with each device marked, the building with its floors, and the live timeline. Multi-site adds the map of every site. Demo building shown.

Standard features

Every edition

- **Live Monitoring:** world map with All / Fire / Faults filter, the building's own drawing with floors marked, floor plans with every device, zone and exit.
- **Alarm Desk:** acknowledge, clear with the outcome and false-alarm cause, batch clear; a failed loop shows as one incident, not 150 faults.
- **What to do:** the site's own steps, extra steps for the building type, emergency numbers, contacts, and exits that avoid zones in alarm.
- **Never silently blind:** lost links logged as events, panels not heard named on every screen, counts shown "from 9 of 11 panels heard".
- **Devices:** every device as "Loop 1 · Device 023", with its history and diagnostics; isolations with reason, permit and return date.
- **Event report:** by site, panel, type and date; download as CSV or Excel.
- **Control room:** shift handover, incident notes, alarm sound, light or dark theme, larger text; installs as an app on PCs and tablets.

Additional features

By licence

- **Escalation:** unacknowledged alarms go to people in turn by email, Telegram or webhook (SMS and voice through a gateway); "All clear" and "Panel reset" messages close each one.
- **BMS integration:** Modbus TCP server, BACnet/IP device and MQTT, with allow-listed clients and every command write audited.
- **Panel commands:** reset, silence, relays, enable / disable and zone test, where the panel's protocol supports control.
- **CCTV:** the camera covering the zone in alarm pops up, only when it is actually streaming.
- **Multi-site:** any number of sites, site groups and a personal watch list; access limited per site and by date.
- **Enterprise resilience:** a standby server that takes over in about 15 seconds.

*AlarmPulse lab load test, Oct 2026: simulated multi-site loop failures (150+ devices per loop) on a single PC.



AlarmPulse network

PANELS TO PEOPLE

1 • FIRE ALARM PANELS

Any make, any age

Addressable or conventional

Loop protocol

Serial, two-way

Printer / event port

Serial or IP

Modbus TCP

Panel or gateway

Relay contacts

Common fire, common fault

2 • CONNECTION

Local

Serial or LAN on the site network

PanelTunnel

Dials out over SSH; nothing at the site listens • ENCRYPTED

Site agent

Store and forward over HTTPS or MQTT+TLS; resends after an outage • ENCRYPTED

VPN

Panel on its private address

AlarmPulse Command Centre

- Fire alarms handled first
- Loop failures grouped as one incident
- Outages logged, resync tagged
- Maps, buildings, floor plans
- What to do, escalation, shifts
- Roles, two-step sign-in, sealed audit log

Windows PC • Linux server • your cloud
SQLite • PostgreSQL 16 / TimescaleDB

3 • ANYWHERE

Control room

Any browser, or installed as an app • HTTPS

On-call staff

Email • Telegram • webhook / SMS gateway

Building management

Modbus TCP • BACnet/IP

Data platforms

MQTT • REST API v1 • Excel

Supported fire alarm panels

ANY MAKE • FIVE INTERFACES

INTERFACE	HOW IT CONNECTS	WHAT ALARMPULSE RECEIVES
Addressable loop protocol	RS-232 / USB-serial at the panel	Two-way: every device's state and analogue value; panel commands where licensed
Printer / event port	Serial, or IP through a serial-to-Ethernet converter	Alarms, faults, restores and device text, with the panel's own clock tracked
Modbus TCP	LAN, VPN or site agent	Zones and loop devices by register polling
Fire alarm transmitter (GB/T 26875.3)	The panel's transmitter connects over TCP	Full event decoding with acknowledgement
Relay contacts	Volt-free outputs through the site agent (serial control lines or a Modbus I/O module)	Common fire and common fault, for any panel at all

Each interface is checked against real panels or recorded panel output. Ask for the current list of panel models verified on site; a new event format is added as a driver without changing the rest of AlarmPulse.

Event handling

- Three times on every event: the panel's clock, received, stored; a warning when a panel's clock drifts.
- A sequence number per panel; a resent event is stored once.
- A link loss is an event; what arrives after a reconnect is tagged "found on resync".
- Rules can re-class a driver's event (for example a site's own fault text), never lowering a fire.

Connection security

- Tunnel and agent dial **out**: no port is opened at the site.
- Each site agent has its own login and may publish only its own topics.
- A direct panel on a public address is flagged on the Panels page.
- The site agent keeps events on its own disk until the server confirms them.

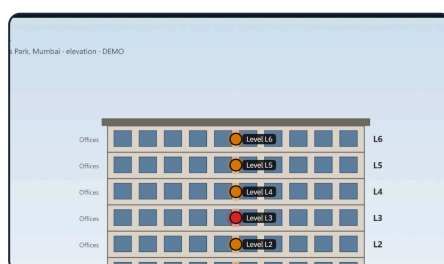
Fire - Tower A L3 - what to do

Demo Business Park, Mumbai - mumbai-facp-1 - Loop 2 - Device 187

- Confirm the zone on its camera, if there is one
- Call the site contact
- Call the fire brigade
- Guide people out by a safe exit
- Record what was done

ALSO FOR A COMMERCIAL / DEVICE BUILDING

What to do. Steps, numbers, contacts and exits for the alarm.



The building. Floors marked on its own drawing, worst state per floor.

L3 Open Plan East

Panel mumbai-facp-1 - address L2:D191 - Loop 2 - Device 191

Fire alarm active - FIRE

Since 2026-10-16 01:48:43 IST. Not acknowledged. Handle it on the Alarm Desk.

Panel: mumbai-facp-1 • Online

Make: Addressable

Type: Optical Smoke Detector

Device. Loop and device, diagnostics and history.



Integration

Modbus TCP	Server on port 502: status, analogue and flag registers, plus a command mailbox
BACnet/IP	Device on UDP 47808 with binary and analogue objects
MQTT	Events from every panel; TLS, one login per site
REST API	Versioned /api/v1 with an OpenAPI description
Notifications	Email (SMTP), Telegram, webhook (SMS / voice gateways)
Exports	Event report and alarm history as CSV or Excel
Monitoring	Prometheus metrics; service status page
BMS safety	Allow-listed client addresses; every command write audited

Security

Roles	Operator, site viewer, commissioning engineer, admin; several per person, each per site or every site, optionally until a date
Sign-in	Two-step (authenticator app, works offline) with recovery codes for engineers and admins; sign-in throttling
Passwords	PBKDF2-SHA256, never stored in clear
Audit trail	Every change, sign-in and role switch; each row hash-chained to the one before, so tampering shows
Break glass	An urgent action outside a role, with a stated reason, flagged in the audit log
Site lifecycle	Commissioning → Live → Maintenance; a site goes Live only with an emergency contact
Licence	Signed (Ed25519); optionally bound to one machine

Deployment

YOUR PC, YOUR SERVER, YOUR CLOUD

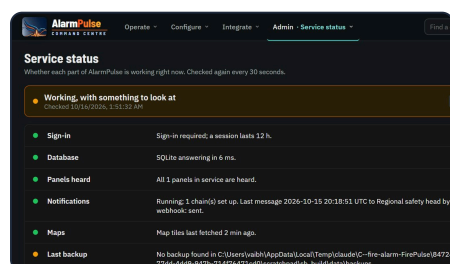
PROFILE	RUNS ON	DATABASE AND SERVICES	RECOVERY
Single building	One Windows 10 / 11 PC (2 cores, 4 GB); no internet needed	Built-in SQLite; starts with Windows, restarts itself	Copy of the data folder
Multi-site	One Linux server (2–4 vCPU, 4–8 GB, 40–100 GB SSD), Docker	PostgreSQL 16 + TimescaleDB, MQTT broker with TLS, HTTPS with automatic certificate	Nightly backup with an automatic restore test
Enterprise	Two Linux servers, primary and standby	PostgreSQL streamed to the standby within about a second	One command promotes the standby (~15 s in tests); site agents resend what they held

Client

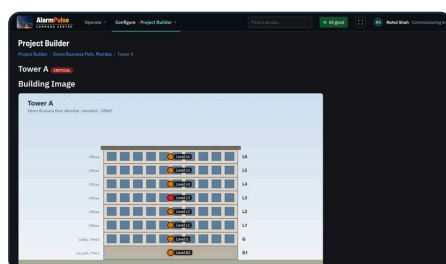
Browser	Any current Chrome, Edge, Firefox or Safari; nothing to install
App	Installs as an app on control-room PCs and tablets
Display	Light or dark theme, high contrast, larger text, compact layout, full screen; for video walls too
Languages	English

Resilience

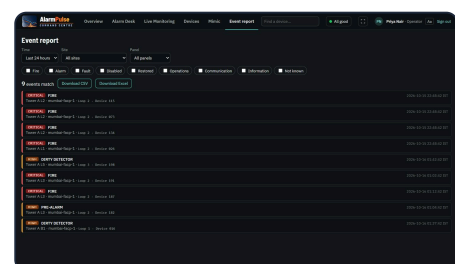
Service status	Sign-in, database, panels heard, notifications, maps, last backup
Upgrades	Backup first; automatic rollback if the new version doesn't answer
Outages	Every server or link outage recorded, with the period nothing was heard
Maps	Map tiles kept on the server for 30 days, so maps work through an internet outage



Service status. Never "all good" while a panel isn't heard.



Project Builder. The building's floors on its own drawing; building types pre-fill them.



Event report. Filter, then download CSV or Excel.



Editions

ONE SOFTWARE, ONE SIGNED LICENCE

Single Building

One site and its licensed panels on one Windows PC, with full graphics. Works with no internet.

Profile: single building

Multi-Site

Any number of sites on one server: the world map, cross-site event feed, site groups and estate counts.

Profile: multi-site

Enterprise

Every interface and feature, for large estates and monitoring centres, with a standby server.

Profile: enterprise

Ordering information

EDITION + PANELS + OPTIONS

ITEM	WHAT IT COVERS	SINGLE BUILDING	MULTI-SITE	ENTERPRISE
Edition licence	The edition above; perpetual or for a term; optionally bound to one machine	•	•	•
Panel count	The number of fire alarm panels that may be configured	As ordered	As ordered	As ordered
Panel interfaces	Which of the five interfaces may run	As ordered	As ordered	All
Escalation	Notification chains, "All clear" messages, test mode	Option	Option	•
BMS outputs	Modbus TCP, BACnet/IP and MQTT command writes	Option	Option	•
Panel commands	Reset, silence, relays, enable / disable, zone test	Option	Option	•
CCTV	Camera pop-up for the zone in alarm	Option	Option	•
Standby server	Second server with streaming copy and switch-over	–	Option	•
PanelTunnel / site agent	Site software for tunnel and buffered connections	Not needed	•	•

• included · Option: added to the licence when ordered. Without a valid licence AlarmPulse keeps monitoring every configured panel; only configuration changes are held.

Scope of use

AlarmPulse is ancillary monitoring and building-systems integration software. It does not replace the fire alarm control panel: detection, alarm signalling, sounder control and evacuation remain with the panel and its approved installation. Check local requirements before using it as alarm transmission equipment.

Request a live demonstration

contact@alarpulse.live
www.alarpulse.co.in

Overview. Fires, alarms and unacknowledged events, then the latest events with loop failures grouped. Demo building shown.