

CASE STUDY · VISUAL MANAGEMENT

Wireless three-color andon stack light

A custom wireless andon light that shows goal pacing and downtime at a glance. It plugs into a standard outlet — no network drops, no conduit, no per-station licensing from a commercial andon vendor.



At a glance

0 cable	3 states	Minutes
Runs on a standard outlet — no network drops	Green on pace, yellow drifting, red behind	Time to add or relocate a station

Overview

The problem

Off-the-shelf andon systems cost thousands of dollars per station and required running cable and network drops across the plant.

What we built

We built a custom wireless stack light that only needs a power outlet. Green, yellow and red are driven by live progress against the shift goal — and the same light can be switched to signal downtime.

The result

The floor gets instant, glanceable status on goal attainment and downtime at a fraction of the cost of a commercial system, with no cabling or infrastructure work.

How it works

01 Plug it in and it joins

The light only needs a power outlet. It connects wirelessly to the plant controller, so stations can be added, moved or reconfigured in minutes.

02 Goal pacing logic

Green means the station is on or ahead of the shift goal, yellow means it is drifting, red means it is far behind. Thresholds are set per line and per product.

03 Downtime mode

The same tower can be switched to downtime signaling, so a stopped line is visible from anywhere on the floor and the stop is logged with a timestamp.

04 Data behind the light

Every color change is recorded, which gives you pacing history, downtime duration and attainment trends without adding another data-entry step.

What we deliver

- Custom wireless stack light units built for your stations
- Goal and threshold configuration per line and product
- Downtime signaling mode with automatic logging
- Attainment and downtime history for review meetings
- Spare units and simple replacement procedure

Best fit for

- Plants quoted thousands per station by commercial andon vendors
- Buildings where running cable or network drops is impractical

- Lines that need visible hourly goal pacing on the floor

Stack: Wireless control · No cabling — outlet only · Goal pacing logic · Downtime signaling

Talk to us about a similar system — manufacturinginfusion.tech