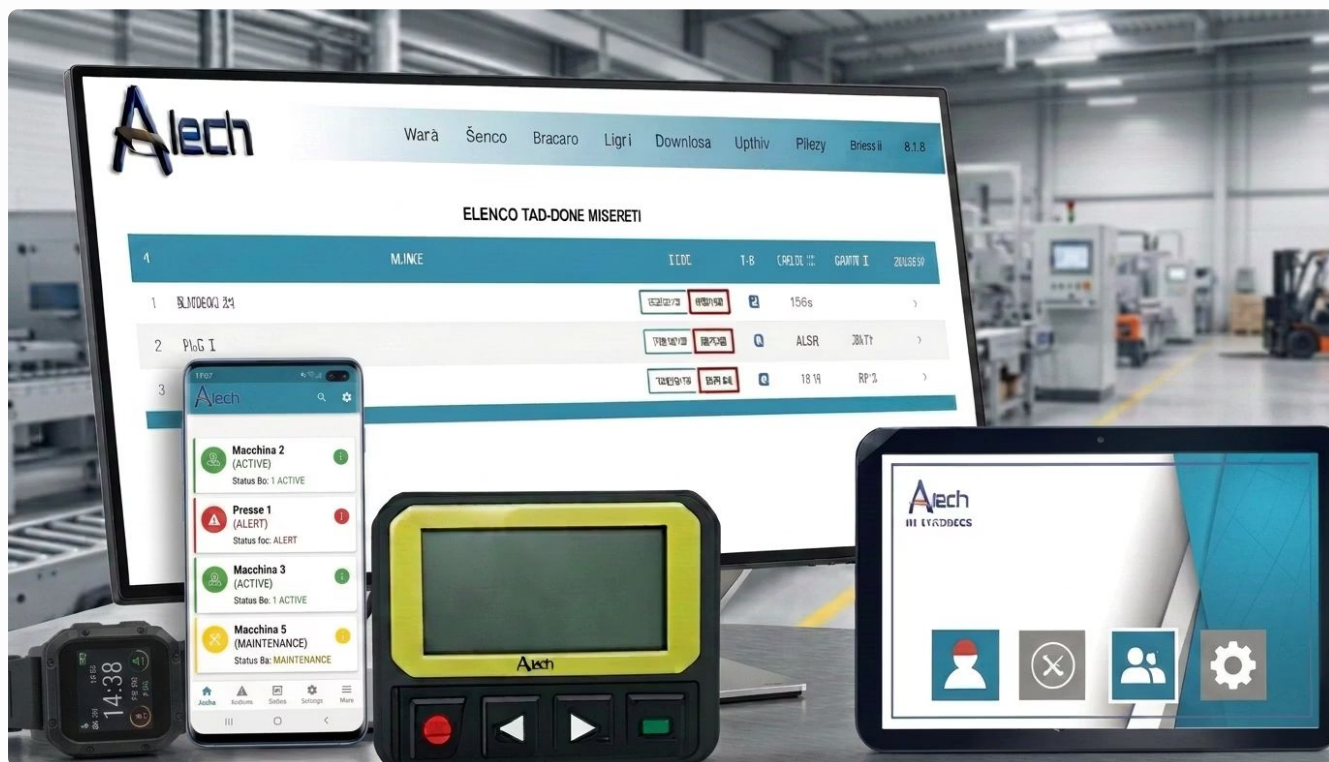




Alech01 Business



The professional wireless calling and monitoring system designed to optimize production workflows, reduce machine downtime, and ensure instant communication between departments. Produced by **Alech srl** in collaboration with **CS Elettronica**.

WIRELESS

PRODUCTION EFFICIENCY

PROFESSIONAL

MODULAR

What is Alecho1 Business?

The System

A wireless network of call buttons that transmits signals in real time to fixed and portable receivers. Every call is tracked, recorded, and analyzed to optimize production flows and reduce downtime.

Operational Advantages

- Immediate reduction of line stoppage times
- Real-time tracking of every call and intervention
- Data history for analysis and continuous improvement
- Range up to 400 m, extendable with repeaters

Key Benefits



Downtime Monitoring

Reporting on machine, line stoppages and intervention times



Rapid Response

Reduction of average response time



Modularity

Scalable across multiple departments and plants



Full Coverage

400 m range, extendable with repeaters



Zero Wiring

Immediate installation without stopping production



Measurable ROI

Reduction of downtime costs and resource optimization

Applications in Production Workflows

Alech01 Business integrates into production processes to eliminate bottlenecks, reduce waiting times, and ensure operational continuity.



Line Downtime Management

The shift supervisor receives instant notification and intervenes before the stoppage is prolonged



Logistics and Replenishment

Immediate call for material replenishment and handling, without flow interruptions



Operator Availability

Rapid location of technical personnel for urgent interventions on machines or lines



Alarms and Safety

Immediate reporting of anomalies, faults, or emergency situations from any workstation

ROI — Return on Investment

Adopting Alech01 Business generates a measurable return within the first few months, reducing both direct and indirect costs associated with production downtime.

Avoided Costs

- Non-productive machine downtime hours
- Overtime to recover lost production
- Reactive vs. preventive maintenance costs
- Material waste from unmanaged stoppages

Expected Benefits

- Reduction of unplanned downtime through continuous monitoring
- Optimization of human resources and intervention shift scheduling
- Return on investment within the first months after installation

Why It Pays Off

An unmanaged machine stoppage can cost hundreds of euros per hour. Alech01 Business turns every critical event into tracked data, reducing idle time and optimizing available resources.



Installation in one day. No production downtime for setup. Fast ROI from the very first period of use.

KPI & Statistics — Production Downtime

Alech01 Business collects and analyzes operational data in real time, turning every event into useful information for the continuous improvement of processes.

↓ Downtime

Line downtime reduction

Fewer unplanned interruptions already in the first few weeks

↓ Times

Faster response

Quicker technical intervention thanks to instant call

↑ Efficiency

More productive operators

Better coordination and shift optimization

✓ Tracked

Full traceability

Every call logged with timestamp and operator

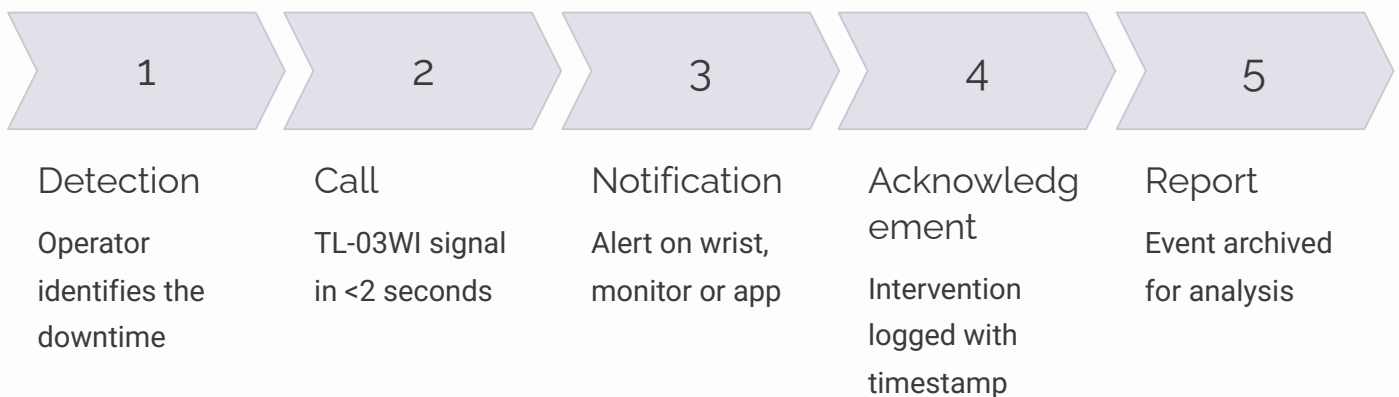
Automatic Reports

- Downtime by department and by machine
- Frequency and average duration of interventions
- Operator ranking by response time
- Weekly and monthly exportable trends

Predictive Analysis

- Identification of critical departments
- Recurring machine downtime patterns
- Preventive maintenance planning
- Decision support for the production manager

Operational Flow — From Downtime to Intervention



Call Keypad — TL-03WI



Technical Specifications

- Flashing LED indicator and audible alarm
- Frequency: 433.50 MHz — Protocol: POCSAG
- Range: 400 m in open area
- Power supply: 2 AAA "Long Life" batteries
- Standby: 2 μ A / Transmission: 50 mA
- Dimensions: 115 × 74 × 21 mm — Material: ABS

Multi-Role Connectivity

The TL-03WI instantly connects all operational roles within the company.



Operator



Forklift Driver



Mechanic



Maintenance



Warehouse Staff

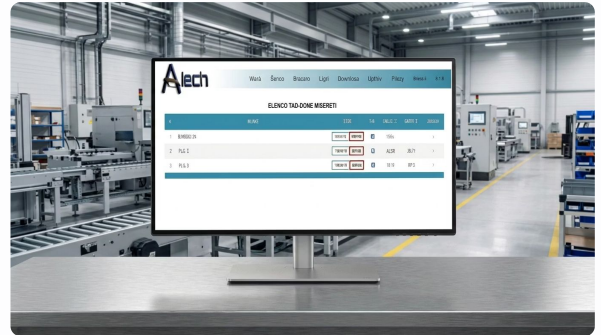
Management Software & Monitors

MT-ooG — Production Dashboard

Centralizes control of all production events in real time. Displays machine stoppages, line stoppages, response times, and intervention history on any device: Tablet, Smartphone, TV, PC.

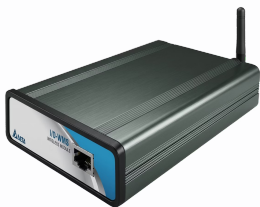
Monitorable KPIs

- Duration and frequency of machine and line stoppages
- Average response time by department and operator
- Complete call and intervention history with timestamps
- Device battery levels and infrastructure status
- Exportable reports for production analysis and auditing



Mobile App — AP-A01

Mobile monitoring on Android smartphones and tablets. Receives notifications, alarms, and calls; manages job take-over by the first available operator via Wi-Fi.



IP-WS01RF — Central Interface

Manages all wireless devices in the department: communications, battery levels, and call status in real time. The nerve center of the Alech01 Business infrastructure.

Portable Receivers

ALP-302 — Wrist Receiver



- Illuminated alphanumeric display
- Ringtone and vibration
- Integrated clock
- Stores up to 20 messages
- Rechargeable — Standby ~200 hours
- PVC wristband

ALP-304 — Portable Receiver



- Ringtone and vibration
- Belt clip included
- Stores up to **3,000 characters**
- Dimensions: 60 × 80 × 20 mm
- Single charger included