

ENVIRONMENTAL MONITORING

Gas, air quality,
ventilation, and
process variables
monitored as
operations require.

Robust industrial sensorization for galleries, tunnels, plants, and technical rooms. Hot-swap cartridges, technical alarms integrated with supervision, and regulatory compliance by design.

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At SATIC we integrate the layers that critical projects rarely deliver together. Twenty years deploying technology in sectors where availability and security leave no room to improvise. No shortcuts, no subcontracting what's critical, and a single point of contact.

This catalog lays out how we approach this solution: what gets deployed, how we deliver it, and where it adds real value. If something doesn't fit your case, we adapt it.

What gets deployed to detect in time.

01

Gas detection

Gas detectionSensors for CO, CH₄, O₂, H₂S, and combustibles depending on the environment. Traceable periodic calibration.

02

Air quality

Air qualityParticles, dust, humidity, temperature, differential pressure in critical zones.

03

Monitored ventilation

Monitored ventilationProcess variables from fans and collectors. Technical alarm and automatic trigger where appropriate.

04

Hot-swap cartridges

Hot-swap cartridgesMaintenance without stopping the operation. Hot replacement with calibration traceability.

05

Integration with control systems

Integration with control systemsGateways to SCADA and supervision. The environmental data reaches where the decision is made.

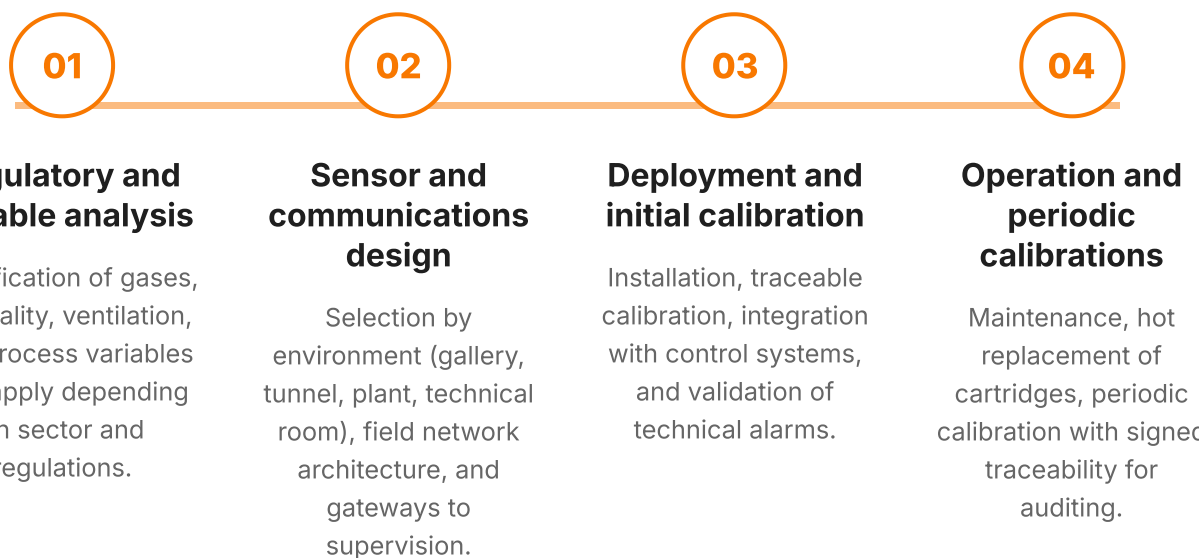
06

Regulatory compliance

Regulatory complianceTraceability, records, and documentation ready for mining regulations, the tunnel RD, or sector regulations.

How we deploy environmental sensorization.

From regulatory analysis to traceable calibration.



Where detecting sooner prevents the incident.

Scenarios where sensorization isn't technical decoration.

01

Gas detection in the gallery

CO, CH₄, O₂, and H₂S monitored at every critical point. Technical alarm integrated with frontline communication and with guided procedures.

02

Air quality and ventilation

Environmental variables in every bay, integration with fans, and automatic triggering per regulation.

03

Process variables

Leaks, air quality, consumption, and production parameters integrated with central supervision.

04

Data center monitoring

Temperature, humidity, water leaks, presence, and consumption. The alarm doesn't get lost in email.

05 · NEXT STEP

Does detection arrive before the consequence?

Tell us what processes you monitor and which regulations apply. We design the sensorization tailored to your environment.

06 · CONTACT

Let's talk.

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Solution details online

Where the catalog falls short, we build it.