



AETOS
TECHLABS

SMART PLC MONITORING
INDUSTRIAL · BUILDINGS · POWER



AETOS ONE · SMART MONITORING

Your machines already know. Now so do you.

One rugged controller in your panel room reads the PLCs, meters, chillers, inverters and fire panels you already own — records every reading on your premises, warns the right person the moment a limit is crossed, and answers questions in plain language. Nothing replaced. Works with the internet down.



READS ONLY · NEVER TAKES CONTROL

Reads what you own

Spare port or passive tap. Your PLC scan time and logic are untouched.

Data stays in the plant

Years of history on a disk inside your building. No per-tag, per-user or monthly licence.

Silence is an alarm

A sensor that stops reporting is a fault, never "normal". Alerts escalate until acknowledged.



The plant runs on memory and opinion, not record.

Every fact below already exists inside a device on your premises. It stays locked on a small screen nobody looks at, is overwritten in hours, and is never compared with last week.

Cold room drifts 4 °C over limit for six hours overnight

→ A rejected consignment — or one that should have been and wasn't.

A pump runs dry for two days because a level switch stuck

→ Burnt impeller, emergency purchase at three times the price, a stopped line.

One solar string producing 22 % less since the monsoon

→ Months of quietly lost generation that nobody ever billed anyone for.

Fire pump not started in seven months. Battery flat.

→ A system that exists on paper and will not run on the day it matters.

THE FIVE LAYERS	IN PLAIN WORDS	BELONGS TO
Your equipment	The pumps, panels, chillers, meters and machines already installed. Nothing replaced or rewired inside.	You. Unchanged.
The signals	The numbers those machines already publish on their ports — plus new sensors only where nothing measures that value today.	We supply what is missing
The edge controller	A rugged fanless computer in your panel running Aetos One OS. Speaks every common industrial language, applies your rules, raises alarms, stores history, runs the on-site AI.	Yours after handover
The data engine	Two open databases and a dashboard engine on that same computer — records, readings and screens. No proprietary format holds your data hostage.	Yours. On your premises.
The people	Control-room screens, phones, WhatsApp and email alerts, automatic PDF reports, audit printouts.	Your team

Plant head

One screen that says whether last night was normal — before the first meeting of the day.

Quality head

A defensible temperature and humidity record for every hour of every batch, printable on demand.

Maintenance head

A warning while a bearing is getting warm, instead of a breakdown call after it seized.

Finance head

Energy split by line, shift and source, so a rising bill has a name attached to it.

Facility manager

Proof the fire system, DG and lifts were tested — with dates, not assurances.

Owner

Your site from your phone, on a Sunday, from another city.

ONE PLATFORM

Eight solution families.

Same controller, same screens. Scope grows by configuration, not a fresh project.

Process & production

Energy & hybrid power

Buildings & BMS

Fire supervision & auto-test

Water & waste

Agriculture & farms

Video & analytics

Vehicles · assets · cold chain

Smart metering

People counting · ANPR

HOW IT WORKS

If it has a port, a pulse or a contact, we can read it.



Aetos One

Virtually everything on an Indian industrial site, regardless of brand or vintage. A fifteen-year-old PLC from a vendor that no longer exists is the normal starting condition.

Modbus RTU (RS-485)

Energy meters, VFDs, older PLCs, temperature controllers

Modbus TCP

Newer PLCs, inverters, power analysers

OPC-UA

Modern automation platforms — Siemens, Rockwell, Beckhoff class

BACnet

Chillers, AHUs, VAV boxes, BMS head-ends

MQTT

Wireless sensor gateways, third-party IoT devices

4–20 mA · 0–10 V

Pressure, level and flow transmitters

Dry contact · pulse

Run/stop, trip signals, water and gas meters

Wireless sensors

Battery-powered, years on one cell — cold rooms, tanks, farm sheds

IP camera

Vision checks, analogue gauge reading, housekeeping

ALARM DISCIPLINE

It chases until somebody answers.

1. Three severities — info, normal, critical — not thirty. Critical is delivered by the site itself before anything is sent anywhere.
2. Goes first to whoever can close the valve, not to the most senior person. Management sits on the escalation path.
3. No acknowledgement in the agreed time → next role, then the next. Nothing is lost because one phone was on silent.
4. A repeat inside its cooldown increments a counter instead of sending message #400.
5. Every acknowledgement and resolution is recorded against a named person.

REPORTS THAT ARRIVE UNASKED

What your people see.

1. Daily summary at the hour you choose: what ran, stopped, alarmed, is still open.
2. Weekly exception report — only what was not normal.
3. Monthly energy and utility statement, split the way your accounts need it.
4. Compliance reports in the exact format your regulator, customer or auditor expects.
5. Automatic test certificates for fire pumps, DG sets and every scheduled test.
6. Any date range, in seconds, when someone asks in a meeting.

OFFLINE · INSIDE YOUR PANEL ROOM

A plant expert that reads your data

Given your live readings, alarm history and procedures — and asked to answer questions about them. "Why did line 2 stop at 3 a.m.?" It explains. It never issues a command.

ONLINE · PER CAMERA, OFF BY DEFAULT

Vision checks a number cannot make

An unreadable gauge, a blocked extinguisher point, a suspected leak. Only from cameras you nominate, at the frequency you set. Many sites run with it switched off.

WHERE IT EARNS ITS KEEP

Exactly what changes at your kind of site.



Aetos One

Start with a pilot — one line, one godown, one building. It proves the value with your own numbers, and scaling up is configuration.

Pharma & life sciences

Every hour of every batch, tamper-evident. Set-point changes with a name and a time.

Godowns & cold storage

Wireless temperature in every chamber. Door-open duration. The 3 a.m. drift, caught.

Farm houses & agriculture

Tank levels 400 m from a socket. Pump dry-run. Poultry shed climate.

Food, beverage & dairy

CIP cycles, cold chain, line stoppages by cause — plus a productivity layer.

Water & wastewater

Flows, levels, chemical dosing, blower hours. Pump duty rotation where agreed.

Chemicals & process

Reactor temperature and pressure history, interlock events, utilities per batch.

Manufacturing & textile

Energy per line and shift, VFD faults, compressor leaks, bearing warmth before seizure.

Hotels, hospitals, buildings

Chillers, AHUs, DG, lifts, fire — one board. Filter choke before the bill climbs.

Residential estates

STP, tanks, DG, lifts, gate power. Proof of testing for the committee.

1

Survey

We photograph, trace and document what is actually there. You keep the drawings.

2

Point list & design

Existing signals first; new sensors only where nothing measures it.

3

Install

Panel terminals in an agreed window. Production rarely stops.

4

Configure

Rules, deadbands, escalation, dashboards, reports.

5

Commission

Alarms tested against real events. Operators trained in their language.

6

Handover & care

Passwords, point list, database — yours. Monthly data review.

"Will it slow down my PLC?"

No. Read-only, on a spare port or passive tap, at an interval your automation engineer agrees. Scan time and logic untouched.

"We already have SCADA / a BMS."

Good — we sit alongside it. What they rarely give you is multi-year history, mobile access, escalating alerts and fire, power and warehouse data on the same board.

"What if you're not around in five years?"

Everything keeps running. Open software, your hardware, your credentials. No key that expires and stops your plant being monitored.



**AETOS
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Bring the three things that went wrong last year.

A short conversation, then a survey. Dashboards are live within days; the first month almost always produces a finding that surprises the site team.



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Watches, records, warns · Control only with written sign-off