



THE ILIMA RANGE
9 OCTOBER 2026

ilima

Every machine, pulling together.

ilima (ee-LEE-mah) is isiZulu for a work party: neighbours come together to work one field until the job is done. That is the idea behind the range. Counters, controllers, gateways and software that each do one job well on their own, and pull together as one plant when you connect them.



HOW THE RANGE FITS TOGETHER

Start with one unit. Grow the whole plant.

01

One machine

A counter, pump or irrigation controller works alone through its own web page. No software licence needed.

02

The whole plant

ilima scada picks up the controllers and your PLCs — the gateway brings in the serial ones — with history, alarms and phone access.

03

Run the plant

ilima master count adds orders, stock and lots; ilima maint keeps the machines, job cards and spares.

THE RANGE

Seven products, one family**ilima count**

HARDWARE

Counts what the line actually made — rate, batch, rejects, order and lot.

Product information 12

ilima pump

HARDWARE

Pressure or supply control for one pump, with dry-run and overpressure protection.

Product information 10

ilima irrigate

HARDWARE

Four named zones, eight schedules each, rain inhibit and litres per zone.

Product information 11

ilima gateway

HARDWARE

Puts RS-485 PLCs and drives onto Modbus TCP — RTU or ASCII.

Product information 14

ilima scada

SOFTWARE

The whole plant on one screen, with history, alarms and phone access.

Product information 09

ilima master count

SOFTWARE

Every counter on one screen, with orders, stock, recipes and lot traceability.

Product information 13

ilima maint

SOFTWARE

Job cards, machine files, spares, suppliers and shifts, on a phone at the machine.

Product information 15

Names in the range are being finalised; each product's own information sheet carries its full specification.

ONE BOARD

Every ilima controller, the same hardware

Every ilima controller runs on the same industrial ESP32 I/O board — DIN-rail mounted, 12/24 V DC, with four relay outputs, four opto-isolated inputs, analogue in and out, and an RS-485 port. What changes is the firmware written for it. That means a common spares holding, one wiring standard across your site, and a unit that can be re-tasked instead of replaced.

4 × 10 A relays · 4 NPN opto-isolated inputs · 2 × 0–10 V and 2 × 4–20 mA analogue inputs · 2 analogue outputs (0–10 V or 4–20 mA) · RS-485 · 12/24 V DC · Wi-Fi web page with access-point fallback.

ACROSS THE RANGE

What holds for every ilima product

- ◆ It runs on your own PC, panel or controller
- ◆ There is no vendor cloud in the path, and the data stays yours
- ◆ No per-user or per-tag monthly fee
- ◆ Every product opens on a phone
- ◆ It keeps working when the internet does not
- ◆ The person who built it answers the phone

Which one does your plant need first?

Tell us what is stopping, what nobody can see, or what is still on a clipboard.
We will start there.

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About KPJ Automation

KPJ Automation is an independent industrial controls and automation house in La Mercy, KwaZulu-Natal, and the maker of the ilima range. Stephan Roets brings more than ten years of hands-on plant experience to every job: design, panel build, installation, commissioning and breakdown support. KPJ designs, builds and supports every ilima product itself, so the person who wrote the firmware is the person who answers the phone.

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