

YOUR WATER, MANAGED AUTOMATICALLY

Your tank fills itself. You just use the water.

SI Water monitors your tank and manages your borehole pump automatically — daily top-ups, emergency fills, borehole protection and municipal backup. The entire automation engine runs **onboard**. No Home Assistant, no internet, no phone required.

| FILL MODES | BOREHOLE PROTECTION |
|--|--|
| Daily Top-Up, Normal Fill, Emergency Fill, Municipal Backup — all configurable, all running automatically. | Flow rate monitoring, no-flow timeout, automatic retry logic and fault lockout protect your pump 24/7. |
| LIVE MONITORING | USAGE TOTALS |
| Live tank level in % and litres, real-time flow in/out, current automation state — updated continuously. | Daily, monthly and all-time inflow/outflow totals. Water events logged with timestamps. |

Why you'll love it

- **Never run dry again**

Daily Top-Up mode keeps your tank at your chosen level every day, at a time you set. No manual intervention.

- **Borehole protection built in**

Flow rate is monitored continuously. If flow drops, the pump pauses, retries, then locks out if the fault persists. Saves a motor replacement.

- **Municipal backup, automatically**

If the borehole can't fill the tank, SI Water switches to the municipal solenoid valve silently, without anyone touching anything.

- **Emergency fill always ready**

If the tank drops critically low, SI Water triggers an emergency fill immediately — regardless of the schedule, night or weekend.

- **Works without internet or HA**

The automation engine runs on the device. Your tank stays managed whether your phone is on, the internet is up, or Home Assistant is running.

- **Private and local**

Your water data lives on your own network. No cloud account, no subscription, no data sold.

What you'll see in the Solaire Intelligence app

Download the app on iOS and connect to your SI Water device. Everything updates live.

| What you see | Shown as |
|-----------------------------|--|
| Tank level right now | Live % and litres (e.g. 74% · 1,665 L) |
| Current automation state | Idle / Daily Top-Up / Emergency Fill / Borehole Fault etc. |
| Live flow rate | Inflow and outflow in litres per minute |
| Fill and usage today | Inflow total and outflow total for the day |
| Monthly and all-time totals | Cumulative inflow and outflow since installation |
| Recent water events | Last 3 events with volume and timestamp |
| Borehole and pump status | Running / Fault / Low Flow Warning |
| Low tank warning | Alert when tank drops below your configured threshold |

Onboard automation modes

All five modes run simultaneously on the device. Each has its own trigger logic, target level and time window — all configurable from the app.

| MODE | TRIGGER | WHAT IT DOES |
|--------------------------|--------------------------------------|---|
| Daily Top-Up | Runs once per day at your set time | Fills to your target level if below it. Reliable, scheduled, quiet. |
| Normal Fill | Tank drops below the fill threshold | Starts a fill cycle automatically and stops at the target level. |
| Emergency Fill | Tank drops to the critical low level | Overrides the schedule immediately — fills to emergency target, any time. |
| Municipal Backup | Borehole can't complete a fill | Opens the municipal solenoid valve as backup. Closes at target. |
| Borehole Schedule | Time window configured in app | Restricts pump to permitted hours (e.g. avoid peak tariff periods). |

Borehole protection: SI Water monitors flow rate continuously. If flow drops below the minimum during a pump cycle, it pauses and waits. After a configurable delay it retries. If flow is still absent after the maximum retry count, the pump is locked out and a **Borehole Fault** alert is raised. A single tap in the app resets the fault once you've identified the cause.

How it works

1. A sensor goes in your tank

A stainless-steel pressure probe is lowered to the bottom of your tank on a waterproof cable. It measures the pressure of the water above it — that's how it knows the exact level in litres and percentage.

2. The onboard automation engine takes over

The probe plugs into a weatherproof IP65 controller. Inside is a processor that runs the full automation engine — monitoring the level, deciding when to run the pump, watching the flow rate, and switching to municipal backup if needed. All of this happens on the device, with no dependency on any external platform.

3. It connects to the Solaire Intelligence app

The controller connects over your home Wi-Fi and reports telemetry to the SI platform. Open the Solaire Intelligence app on your iPhone to see live level, flow, automation state and usage history. Adjust targets, schedules and thresholds — all from the app.

4. It tells you when something needs attention

Low tank? Borehole fault? Unusual flow? The app sends a push notification so you can act before it becomes a problem. The automation keeps running regardless.

What you need

- A water tank (rainwater, borehole, municipal backup — any volume up to about 3 m deep).
- A 220 V plug point near the tank (standard garden or outbuilding socket).
- Wi-Fi reaching the tank — or a small extender if needed.
- An iPhone to run the Solaire Intelligence app (iOS 15+). Android support coming soon.
- **Home Assistant is not required.** If you run HA, SI Water integrates via MQTT as an optional extra.

In the box

- Weatherproof SI Water controller in an IP65 enclosure
- Stainless-steel water level probe with 5 m of cable
- Mains power lead with standard plug
- Simple illustrated setup guide

The plain-English specs

| Question | Answer |
|----------|--------|
|----------|--------|

| | |
|---------------------|---|
| Works with | Tanks of any volume, up to about 3 m deep (deeper on special request) |
| Fits where | Wall-mount IP65 box next to or above your tank |
| Gets power from | A normal 220 V plug — uses about as much as a small phone charger |
| Talks over | Your home 2.4 GHz Wi-Fi |
| Automation engine | Onboard — runs on the device, no external platform required |
| Fill modes | Daily Top-Up, Normal Fill, Emergency Fill, Municipal Backup |
| Borehole protection | Flow monitoring, retry logic, fault lockout — all configurable |
| You view it on | Solaire Intelligence app — iOS (iPhone). Android coming soon. |
| Home Assistant | Optional — integrates via MQTT if HA is present. Not required. |
| Privacy | Local-first. No cloud, no subscription, no data sold. |
| Cable length | About 5 metres (extendable if your tank is far away) |
| Warranty | 12-month limited warranty |
| Made in | South Africa |

Getting yours: email info@si-sa.co.za or visit solaire-intelligence.co.za. We'll help you pick the right setup for your tank, arrange delivery, and get you up and running.



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