TRUFLO PUMPS

AquaBoss

ASSET PROTECTION

Protecting Your Dewatering Assets. Every Hour of Every Day.

USER FRIENDLY | ENHANCED RELIABILITY | PROLONGED ASSET LIFE | REDUCED DOWNTIME

Developed in-house by Truflo Pumps over three years, alongside hydraulic engineers, maintenance teams and pump crews, AquaBoss has been tested and proven in the field. The result is a controller that protects your investment, reduces downtime and delivers real operational savings. And we haven't stopped—using real time user and customer feedback we continue to develop and improve the AquaBoss range.

User Friendly

Simple colour dashboard with a traffic light system. Whether you're running the pump or managing the site, powerful yet simple pump control is right at your fingertips.

Enhanced Reliability

Continuous monitoring keeps your pumping assets operating within optimal performance parameters—reducing the risk of unexpected failures.

Prolonged Asset Life

AquaBoss protects the engine and extends wet-end life by maintaining ideal operating conditions and reducing wear and tear.

Reduced Downtime

Early identification of service requirements means scheduled maintenance instead of reactive repairs—keeping your operation moving.

Real-time monitoring, early issue detection and automated curve optimisation protect both the engine and wet-end, while minimising the risk of cavitation and vibration-related failures. AquaBoss simplifies operations for pump crews and provides the perfect balance between energy efficiency and operational reliability.

AquaBoss features

Stainless steel IP65 enclosure
Provides water and dust protection for superior longevity for electronic components and mechanical settings in harsh environments.

Full 175mm LED display
User friendly full colour interface. Easy to read and simple layout. All key parameters, performance and alarms on home screen.

RGB backlit function keys with tactile feedback
Prevents dirt/smudges to screen. Easy identification of buttons. Usable even while wearing safety gloves.

PIN code access
Series of user logins to track and control access to critical functions.

MDG-15 compliant control functions
Compliant to stringent mobile mine equipment legislation.

Engine Protection — Built In

AquaBoss doesn't just monitor your engine, it protects your bottom line. It identifies issues before they become failures, keeps servicing planned and maximises fuel efficiency. If something does go wrong, it provides fast and accurate fault diagnosis.

EXTENDED ENGINE LIFE | PLANNED SERVICING | MAXIMISED FUEL EFFICIENCY | QUICK ISSUE DIAGNOSIS | DATA AVAILABLE FOR CARBON & ENVIRONMENTAL CREDITS & FUEL USE PLANNING | FAST, ACCURATE FAULT DIAGNOSIS

- ☐ Engine temperature monitoring and shutdown
- ☐ Oil pressure monitoring and shutdown
- ☐ Coolant level monitoring and shutdown
- ☐ Alternator charge fail
- ☐ Engine tachometer
- ☐ Engine load monitor (electronic control engines only)
- ☐ Engine fuel burn monitor (electronic control engines only)
- ☐ Total fuel consumption (electronic control engines only)
- ☐ Programmable engine speed ramp-down on non-critical shutdown
  - – ramp rate
  - – rpm delay
  - – pre-start
  - – warm up
  - – cool down
- ☐ Hour meter
- ☐ Programmable time to next service
- ☐ Fault code diagnostic list

Wet-end Health — Sorted

REDUCED CHANCE OF CAVITATION | PREVENTS PUMP RUNNING DRY | PREDICTIVE MAINTENANCE | REDUCES OPERATIONAL COSTS | CONTINUOUS MONITORING OF CRITICAL PERFORMANCE PARAMETERS

AquaBoss keeps a close eye on the wet-end too, protecting the pump itself, not just the engine driving it. Reducing the chance of cavitation and preventing the pump from running dry helps prevent failures. Monitoring of critical performance parameters brings your operational costs down.

Pump/Wet-end protections

- Programmable pump inlet pressure monitoring and shutdown
- Programmable pump discharge pressure monitoring and shutdown
- Pump volute temperature monitoring and shutdown
- Loss of flow switch and shutdown
- RPM mapped pump pressure monitoring and shutdown

System-wide Protection

INCREASED SYSTEM LIFE

AquaBoss protection extends beyond the pump and engine to the wider system. Monitoring pressure, flow and pipeline pressure catches problems before they escalate, increasing overall system life. Optional accessories add another layer of protection.

System protections

- Pressure
- Flow (optional extra)
- Pipeline pressure
- Additional input/output accessories (optional extras)
  - level control
  - pump bearing temperature / vibrations

Options

- Set point cruise control (PID function) with hierarchical control
- Remote start/stop input facility
- Communications protocol Modbus TCP
- Communication RS485 via a converter
- Alarms list — over 1000 history time stamps
- Automated localised start/stop I/0 control
- Common backend programming to suit all Truflo Pumps engine/pump combinations — allows for on-site stock holdings.

TRUFLO PUMPS AquaBoss ASSET PROTECTION CORE

AquaBoss Core — Simple by Design

Not every operator needs a full data set, sometimes the job just calls for clear, straightforward direction. AquaBoss Core is the base model controller, built for exactly that. It strips away the telemetry and gives operators plain, direct instructions instead e.g. increase/decrease rpm, open/close valves — no dashboards to interpret, no data to second-guess. Just tell the operator what to do and when to do it.

The result is an easy learning curve for new operators and a controller that gets out of the way rather than adding another thing to learn on site.

- Base model controller, built for simplicity
- No telemetry, direct operator instructions only
- Tells operators what action to take
- Fast to learn, easy to operate
- Ideal for sites where straightforward control matters more than data

AquaBoss Range — Retrofit Ready

> New controller, existing pumpset, no problem. Both AquaBoss and AquaBoss Core are built to retrofit onto pumpsets already in your fleet. Upgrading control and monitoring doesn't mean replacing the equipment around it.

An adapter harness connects straight into the new controller, with bracketry supplied to mount the new panel. For older units or non-standard setups, a full wiring harness is available, covering both engine and pump. Retrofitting isn't limited by what's already wired in.

- ☐ Retrofit compatible with existing pumpsets
- ☐ Adapter harness plugs straight into the new controller
- ☐ Bracketry included for panel mounting
- ☐ Full engine and pump wiring harness available where needed
- ☐ Upgrade control without replacing the fleet

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PUMPING SYSTEMS

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