

CAPABILITY STATEMENT

ULTIMA CONTROL

OEM field service support for industrial diesel engines



Perth-based electrical and controls field support for engine manufacturers, authorised dealers, packagers and service organisations.

Our technicians can work under the OEM's scope, procedures and escalation path to diagnose faults, complete electrical maintenance and prove engine alarm and shutdown functions. The focus is disciplined field execution, documented results and a clear handback to the responsible OEM service team.

FIELD ELECTRICAL SERVICE

Fault finding, repairs, inspections and planned maintenance on engine electrical systems.

CONTROLS AND INSTRUMENTATION

Controllers, sensors, actuators, starting and charging systems, harnesses and interfaces.

PROTECTION TESTING

Documented alarm, trip, emergency-stop and shutdown verification to an approved test scope.

FIELD SUPPORT | OEM-DIRECTED DELIVERY | DOCUMENTED TESTING

ULTIMA SERVICE GROUP PTY LTD | ABN 90 676 533 252 | EC 17267

ELECTRICAL AND CONTROLS SERVICE CAPABILITY

Field support for industrial engines

Ultima Control provides the electrical and control-system capability that sits between the engine, its local controller and the wider plant. We can support planned work, breakdown response, commissioning and structured protection testing without displacing the OEM's technical authority.



Electrical fault finding and repairs

- Starting, charging, DC supplies, relays, contactors and protection circuits
- Sensors, switches, solenoids, actuators and controller I/O
- Harness, connector, terminal and cable damage
- Voltage-drop, continuity, insulation and circuit checks appropriate to the system



Planned electrical maintenance

- Condition inspection of panels, harnesses, connectors and field devices
- Battery, charger and starting-system electrical checks
- Terminal, earthing and enclosure inspection to the approved task scope
- Defect recording, rectification recommendations and as-left status



Alarm and shutdown testing

- Low oil pressure, high coolant temperature and overspeed trip-chain verification
- Overcrank, fail-to-start, low coolant, charging and auxiliary alarm checks
- Emergency-stop, remote-stop and common alarm interface testing
- Documented cause, indication, action, reset and return-to-service results

Controller and plant interfaces

- Engine controller, ECU and supervisory-control interfaces
- CAN J1939, Modbus and hardwired signals where documentation and access are available
- PLC, HMI, SCADA, switchboard and remote-monitoring interfaces
- Commissioning support for replacement controllers and approved control modifications

A PRACTICAL SUBCONTRACT SERVICE MODEL

How we support OEM service teams

The OEM retains technical authority while Ultima Control supplies competent local field execution. We work to the issued service information, site controls and approval limits, then return a concise evidence pack for the OEM's job file.

ENGAGEMENT OPTIONS

- Labour-only field technician support under an OEM work order
- Overflow coverage for planned maintenance, campaigns and shutdowns
- Breakdown attendance for electrical and controls troubleshooting
- Commissioning, retrofit and product-update field assistance
- Defined alarm and shutdown test packages with recorded results
- Perth metro support with regional WA mobilisation by agreement

FIELD WORKFLOW

01 RECEIVE

Confirm the asset, symptoms, work order, documentation, access and approval limits.

02 PREPARE

Review site requirements, isolations, test method, tooling and parts availability.

03 DIAGNOSE

Inspect the system, capture fault evidence and identify the likely failure path.

04 AUTHORISE

Escalate findings and obtain approval before parts replacement or modification.

05 REPAIR AND TEST

Complete authorised work and verify the affected functions against the test scope.

06 REPORT

Record measurements, faults, actions, parts, test results and outstanding recommendations.

Service reporting

FAULT EVIDENCE

Fault codes, symptoms, measurements, photographs and relevant wiring references.

WORK COMPLETED

Authorised repairs, parts used, settings affected and verification performed.

HANDOVER

As-left status, unresolved defects, recommendations and any operating restrictions.

Clear technical boundaries

ECU programming, calibration changes, firmware updates and proprietary diagnostic functions are performed only when the OEM supplies or authorises the required software, access and procedure. Parts substitutions, wiring changes and control-logic changes require written approval. Engine mechanical overhaul is outside this electrical and controls scope unless separately agreed and resourced.



ENGINEERING-LED FIELD DELIVERY

Why Ultima Control

TECHNICAL FIT

- Industrial automation engineering and electrical capability in one field team
- Practical experience across engine controls, generator systems, panels and site interfaces
- A WA electrical contracting structure for electrical work and controlled site delivery
- Clear reporting, escalation and handback suited to OEM service operations



ENGINEERING LEADERSHIP: DEGREE IN INDUSTRIAL AUTOMATION ENGINEERING | DIPLOMA IN ELECTRICAL ENGINEERING | LICENSED WA ELECTRICAL CONTRACTOR

Equipment and applications

Support can be provided for industrial diesel engines and generator packages used in power generation, pumping, compression, mining, infrastructure, marine auxiliary and critical-power applications. Equipment may include engines and packages from Wärtsilä, Caterpillar, Detroit Diesel, Volvo Penta, Cummins and other manufacturers, subject to the approved work scope, technical documentation, tooling and access.

Manufacturer names identify equipment that may be encountered. Ultima Control does not claim authorised dealer or service-agent status for any manufacturer unless that status is confirmed in writing for a specific engagement.

Suitable first engagements

OVERFLOW FIELD SUPPORT A defined service call or planned-maintenance task completed under the OEM's work order.	PROTECTION TEST PACKAGE Alarm and shutdown checks completed to an approved test sheet with recorded evidence.
FAULT DIAGNOSTIC VISIT A bounded electrical and controls investigation with findings returned before repair approval.	COMMISSIONING ASSISTANCE Local support for controller replacement, package integration or post-repair functional testing.

DISCUSS PERTH AND WA FIELD SUPPORT

Send the engine model, site location, symptoms or planned work scope. We can confirm technical fit, access requirements and a practical first engagement.

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