ACETECH ™ | CONTROL 64
The latest in connected control

Product Description:

The **CONTROL 64** ECU is top of the range of the **ACETECH™** family of microprocessor-based fully programmable and user-configurable ECUs. Connected via the **ACETECH™** CAN bus network, the ECU communicates with up to 8 switch panels plus additional control and data capture modules. The multiplexed network greatly reduces the amount of wiring required to install the system, saving time, cost and weight compared to traditional hard-wired systems. Specifically designed for the rigours of the EMS (Emergency Medical Services) market, **CONTROL 64** contains no moving parts - all outputs are driven via solid-state FETs which provide thermal and current protection.

Technical Data:

- Power Supply Voltage: 9V ~ 36V
- Operating Temperature: -40^0C ~ $+85^0$C
- Rugged metallic case: 330mm x 250mm x 45mm (including connectors)
- **ACETECH™** Fault Tolerant CAN Interface
- 6x **ACETECH™** network ports
- 41x Positive Outputs with diagnostic LEDs
- 4x Positive/Negative Outputs with diagnostic LEDs

Output Drivers:
- Type: solid-state FETs with auto-resetting thermal protection and current limiting
- Current: guaranteed minimum 7.5A continuous load current per output
- 5 sets of grouped outputs delivering up to 30A
- Dedicated Intelligent Charge Control Output
- 15x Active High Inputs with diagnostic LEDs
- 10x Active Low Inputs with diagnostic LEDs
- 8x Active High/Low Inputs with diagnostic LEDs
- 4x Battery Voltage Sense Inputs

Product Features:

- Microprocessor based, user configurable and reprogrammable control logic
- Entirely solid state design for maximum robustness and reliability – no mechanical relays
- Auto-resetting thermal protection and current limiting FETs on all outputs
- Intelligent battery management actively protects the main vehicle battery whilst optimising charge to the auxiliary/conversion batteries
- Built-in automatic emergency engine start feature using auxiliary battery to boost main battery when low
- Low power mode and load shedding feature to protect auxiliary battery

ACETECH™ Enhanced Features:

The built-in **ACETECH™** CAN interface allows all **ACETECH™** ECUs to integrate seamlessly with other **ACETECH™** enabled products to harness the full power and benefits of the **ACETECH™** system:

- Effortlessly add **ACETECH™** switch/indicator panels simply by running 4 wires from ECU to each panel.
- Use **ACETECH™ CONNECT** or USAM to incorporate vehicle-based parameters in the ECU's configurable logic functions.
- Monitor any ECU input/output signal from the TrackingAVL website via **ACETECH™ CONNECT** without extra wiring.
- Expand output drive capabilities by adding **ACETECH™ CONTROL** modules.
- View status of all ECU-controlled functions in-vehicle via **ACETECH™ TOUCH** Products.