

## Delta 400 Technical Specification

### Hardware

High performance 32 bit e200z335 core processor @ 80MHz - Power Architecture Book E

Dedicated Time Processor Unit for core independent angle based signal processing

1.5Mb FLASH memory

6 x Injector outputs

4 x Ignition outputs software selected Logic level or IGBT Power

5 x Low side outputs 3A

3 x Linear analogue inputs

3 x NTC analogue input

2 x Lambda analogue inputs

1 x CAN 2.0B channels

1 x 500mA sensor supply outputs

Internal Barometric Pressure Sensor

3 x VR/Hall effect digital inputs software selected

All outputs protected against short circuit with feedback for short/open circuit diagnosis

1 x 35 way AMPSeal connector

Bespoke ABS Enclosure

100% Surface Mount Technology

6-18V operating voltage

Internal monitoring of battery voltage, reference supply voltages and ECU temperature

Suitable for engine bay mounting

Size: 100 x 160 x 35mm Weight: 228g

## **Software Specification**

Intuitive Bespoke Real Time Calibration Tool using micro USB CAN Interface Dongle

Up to 4 Cylinders Direct Ignition and Sequential Injection

Up to 6 Cylinders Wasted Spark and Sequential Injection

Up to 8 Cylinders Wasted Spark and Batched Injection

Engine Logbook Recording Vital Engine Statistics

Wide Range of Original Equipment Trigger Patterns Supported

32 x 32 Variable Breakpoint Fuel and Ignition Main Maps

Alpha-N, Speed Density or Hybrid Alpha-N with MAP Correction Load Input

Maximum Engine Speed Breakpoints up to 16,500rpm

Individual Cylinder Trim Maps for both Fuel and Ignition

Stereo Closed Loop Fuelling Control (Narrowband or Wideband) with Lambda Auto Mapping

User Configurable Hard and Soft Engine Speed Limiters as a function of Coolant Temperature

User Selectable OEM CAN Output to drive Original Equipment Dashboards and EPAS systems

Comprehensive Transient Fuelling Control

Closed Loop Boost Control with Overboost Fuel Cut Protection and Gear offsets

Comprehensive Environmental Corrections for Fuelling and Ignition

Cranking and Cold Start Enrichment Maps

Overrun Fuel Cut-off Strategy

Closed Loop Idle Speed Control for both Ignition and Idle Air Bypass Valve

Variable Camshaft Timing Control for up to 2 Camshafts

All Sensor Inputs are User Configurable

VTEC Cam Switching Control

Configurable Shift Lamp Control

Comprehensive Launch Control, Switched or Fully Automatic

Pit Lane Speed Limiter

Closed or open loop gear cut switch or direct GCU Input, full Ignition Cut or Ignition Retard

## 4 Cylinder Staged Injection