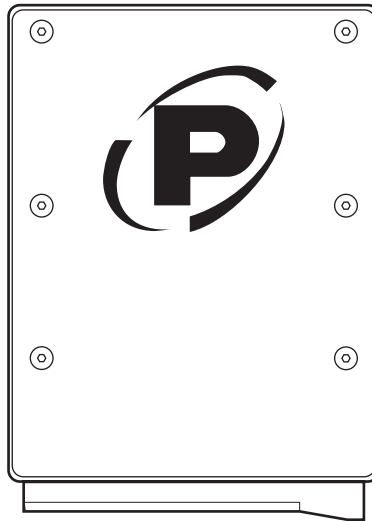




Pectel T2 ECU



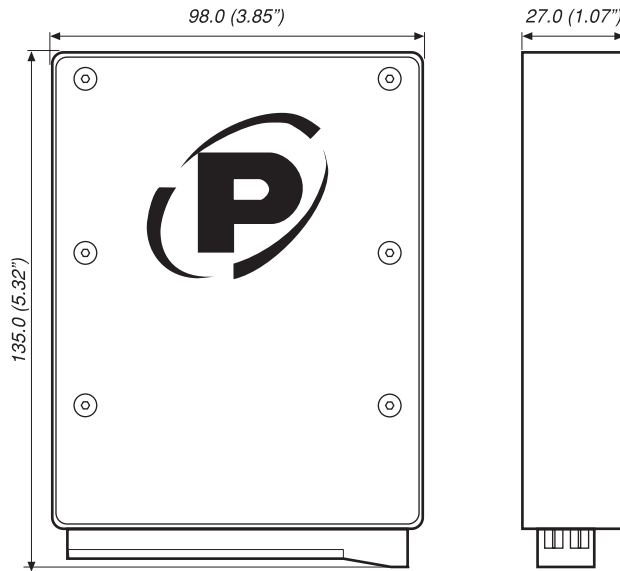
Introduction

The Pectel T2 ECU benefits from leading edge technology developed in the Pectel high end ECUs. Fault protected drivers are used to control four high-impedance injectors and two ignition channels for fully sequential operation of four cylinder engines to 10,000rpm. There are six external analogue sensor channels including a standard lambda sensor input; an internal sensor is used for barometric pressure compensation.

Three output channels are provided for PWM or switched control of external functions (such as a fuel pump, idle speed control, wastegate control etc.) and a switch input is provided which can be used for a lap beacon etc. The system includes 512kB of battery backed memory for engine data-logging (40 simultaneous channels from a possible 120, with independent user-configurable rates of up to 100Hz). An engine logbook function is also provided, which records maximum and minimum operational parameters from the previous 100 engine runs.

The Pectel T2 ECU is suitable for use in any application where a high quality product is required at a very competitive price.

Dimensions



Dimensions in millimetres and (inches)

Connector details

ECU connector	Mating connector
25 way AMP	25 way AMP

Ordering information

Product	Part number
Pectel T2 ECU	01E-500200

The following option is available:

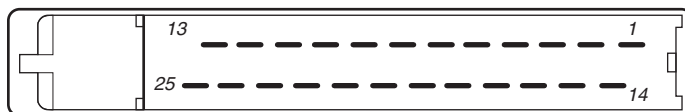
- Serial cable for PC comms 60E-500026

Specifications

Description	Value
Voltage Range	6V—18V
Injector Drives	4 High Impedance
Ignition Drives	2 Internal Clamp
PWM / Relay Outputs	3
Crank Sensor Type	Inductive
Cam Sensor Type	Inductive
Engine Configuration	1 to 4 cylinders 2 or 4 Stroke Natural/ Forced Induction 10000 rpm maximum
Analogue Inputs	6
Internal Sensors	Barometric Pressure ECU Temperature Battery Voltage
Datalogging	40 Channels
Data Throughput	100Hz
RAM	128kB - 512kB
Flash	128kB
A/D Accuracy	10bit
Communication	RS232
Application Software	DESCPRO and DATALOG
Temperature Range	−40°C—85°C
Weight	325 grams



25 way AMP Connector pinout details



AMP 25 way connector pin positions

Pin	Function	Comments
1	IGN1	Build option: Low side / TTL coil driver
14	IGN2	Build option: Low side / TTL coil driver
2	INJ1 HIGH IMP	High impedance only
15	INJ2 HIGH IMP	High impedance only
3	INJ3 HIGH IMP	High impedance only
16	INJ4 HIGH IMP	High impedance only
4	PWM1	Low side (10A maximum)
17	PWM2	Low side (10A maximum)
5	ENG GROUND	
18	ENG GROUND	
6	12V+ve	
19	RS232 RX	RS232 comms
7	RS232 TX	RS232 comms
20	PWM3	Low side (10A maximum)
8	CRANK	Crank sensor input
21	CAM	Cam sensor input
9	MAF/MAP	Analogue input
22	TPS	Analogue input
10	LAMV	Lambda sensor
23	ECT	Analogue input
11	ACT	Analogue input
24	SPARE ANA	Analogue input
12	SENSOR GND	Analogue ground
25	5V+ve	200mA maximum
13	SPARE DIG	Switched input

