

<b>PRODUCT</b>	<b>ELITE VMS T</b>
<b>PART NO.</b>	<b>HT-157100</b>

## No EFI? No Worries!

Ideal for competitive non-EFI, mechanically-injected and carburetted drag cars, the VMS T is a one-stop, one-point-of-contact solution for ignition timing control, boost and nitrous, launch and transbrake control, staging bump-and-creep, as well as on-board data logging.

The VMS T adds Advanced Torque Management functionality and extra 20 channels of data logging to the standard VMS to ensure consistent racing results.



### FEATURES

- Compact size
- Ideal for use with mechanical injection and carburetors
- Waterproof (with USB cover fitted)
- Up to 6 stages of nitrous control
- Closed loop boost control
- CO2 boost control
- Race timer
- Transbrake, bump-and-creep control
- On-board data logging
- Advanced engine protection
- Elite Software Programmer (ESP) real time calibration software
- Load sensing by Throttle Position (TPS), Manifold Absolute Pressure (MAP) or Engine Pressure Ratio
- Internal 3 bar MAP sensor (up to 29psi/200kPa boost/gauge pressure)
- Distributor ignition systems, multi-coil systems or Haltech Multiplex CDI systems
- Compatible with all Haltech CAN devices and IQ3 dashes

### OUTPUTS

- 8 x Over current protected ignition drivers
- Max current 1A per driver
- All spare ignition outputs can be used as generic DPOs with 1A max output
- 9 x User definable DPOs
  - DPO 1 - internal 4K7 pull up adjustable voltage
  - DPO 2 - internal 4K7 pull up to 5V
  - DPO 3-5 internal 4K7 pull up to 12V
  - DPO 6-9 no internal pull up, use with relays and solenoids

### INPUTS

- 5 x User definable AVIs available on the main connector
- Switchable 1K Ohm pull-up resistor for sensors (available to AV14 and AV15 only)
- Up to 20V max input voltage
- Supports up to 1.5KHz input frequency
- 2 x User definable DPLs
- 50KHz max frequency
- Up to 25V max input voltage
- Fixed 5V pull up
- 2 x Engine position inputs with extensive trigger type support

### COMMUNICATION

- 1 x CAN Bus communication for Haltech CAN expansion or OBDII
- 1 x USB connection for programming

### DATA LOGGING

- On-board data Logging, up to 40 channels of logging
- Fastest sample rate of 5ms
- 1MB internal storage

### TUNING OPTIONS

- Tuning table resolution up to 32 x 32 x 8.
- Limitless tuning flexibility. Tune your engine by a combination of 4D tuning tables combined with 3D per cylinder compensations and multiple user definable corrections.
- Per Cylinder Tuning Correction (3D).
- Thermocouples/EGT (Exhaust Gas Temperature). Connect up to 12 Channels via external CAN expansion devices.
- Nitrous control with advanced programming of wet or dry nitrous kits with on/off delays.
- 3D ignition corrections.
- Boost Control – Intelligent 4D closed loop, with flexible user definable axis and 6 fully user definable corrections. Long term learning.
- Closed loop idle speed control with learning for consistent idle stability. Requires 1 or 2 user defined outputs (BAC type)
- 4D Advanced Torque Mangement. Based on target driveshaft RPM, target engine RPM, or any other channel.

### DIMENSIONS/WEIGHT

Length: ..... 127mm (5")  
 Width: ..... 127mm (5")  
 Height: ..... 39mm (1.54")  
 Weight: ..... 350g (0.771lb)

### POWER REQUIREMENTS AND RATINGS

Input Supply Voltage: 8VDC to 16VDC  
 Output Sensor (5V supply) max current rating: 100mA Max

### SUITABILITY

- 4, 6, 8, 12 cylinder or 1, 2, 3 or 4 rotary engines
- Naturally aspirated or forced induction applications

#### Haltech Australia

17 Durian Place, Wetherill Park  
 NSW 2164 Australia  
 Phone: +61 2 9729 0999  
 Email: sales@haltech.com.au

#### Haltech North America

750 Miles Point Way,  
 Lexington, KY 40510 USA  
 Phone: (888) 298 8116  
 Email: usa@haltech.com



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