

ENGINE CONTROL UNIT TAG-400



The TAG-400 is a compact, self-contained engine management system and data logger for race engines up to 8 cylinders. The unit is complete with integrated ignition and injection drivers and so needs no external units to run an engine.

The unit is suitable for controlling high-revving motorcycle engines plus normally-aspirated and turbo-charged rally, sportscar or open-wheel racing cars. Advanced traction control, Knock control and quickshift features can all be provided, where permitted by regulations.

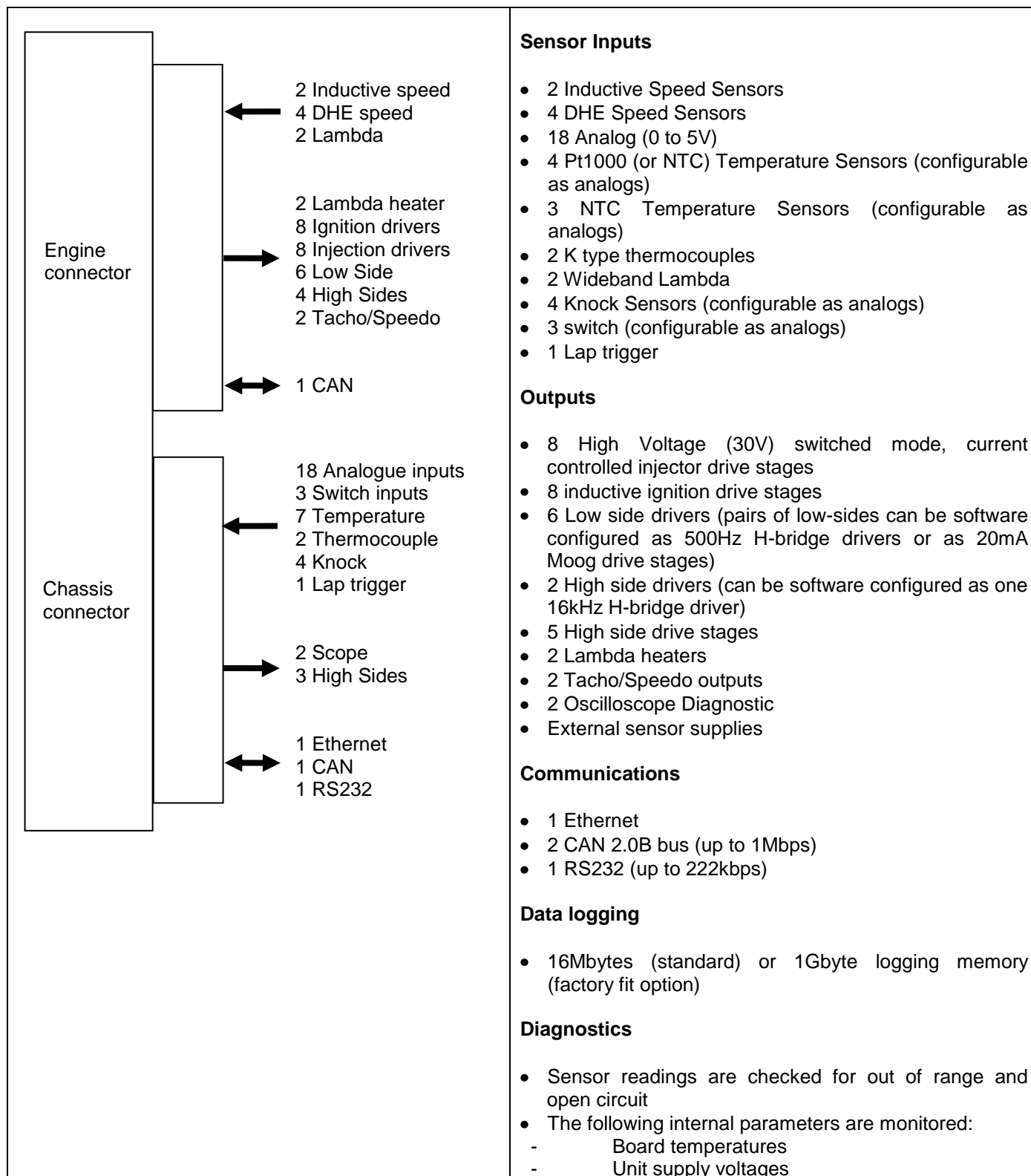
The TAG-400 exploits Power PC technology to provide a powerful and flexible platform for extracting the optimum performance from an engine. Turnkey systems or customer prepared applications are both supported.

Application code may be autocoded using our Graphical Development Environment (GDE) from Matlab/Simulink control modules.

<p>Electrical</p> <ul style="list-style-type: none"> • Supply Voltage 7.9 to 16.0V DC • Supply Voltage not to exceed 17V continuous (the unit is protected against transients and reverse polarity) • TAGOS 32-bit Real Time Operating System • Data logging memory capacity 16Mbytes (1Gbyte version also available) <p>Mechanical</p> <ul style="list-style-type: none"> • Case material hard anodised aluminium • Weight 585g <p>Other Features</p> <ul style="list-style-type: none"> • One System Monitor configuration tool software licence supplied per team purchasing TAG-400s <p>Application</p> <ul style="list-style-type: none"> • Control and monitoring of engine and/or gearbox 	<p>Connection Definition</p> <ul style="list-style-type: none"> • Integral, sealed, military standard connectors <p>Environmental</p> <ul style="list-style-type: none"> • Splash resistant to standard motorsport fluids • Lids sealed with O rings and screws sealed with silicone rubber • Maximum humidity 100% • Minimum operating temperature -10°C • Internal temperature not to exceed 70°C as measured by internal diagnostic sensors • Storage temperature -10 to +85°C • Vibration 100 to 1000Hz, all axes, 24hrs <p>Electro Magnetic Compatibility</p> <ul style="list-style-type: none"> • Complies with the essential protection requirements of 89/336/EEC
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ENGINE CONTROL UNIT

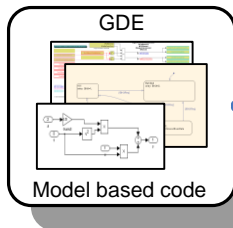
TAG-400



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TAG-400 development system

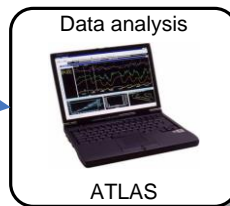
Model based development environment for control strategies and processing algorithms compiled for embedded target



- 8 Cylinder engine control
- Onboard ignition and injection drive stages
- Lambda and knock interfaces
- 100baseT ethernet
- 2x CAN interfaces
- Onboard logging memory and data acquisition system

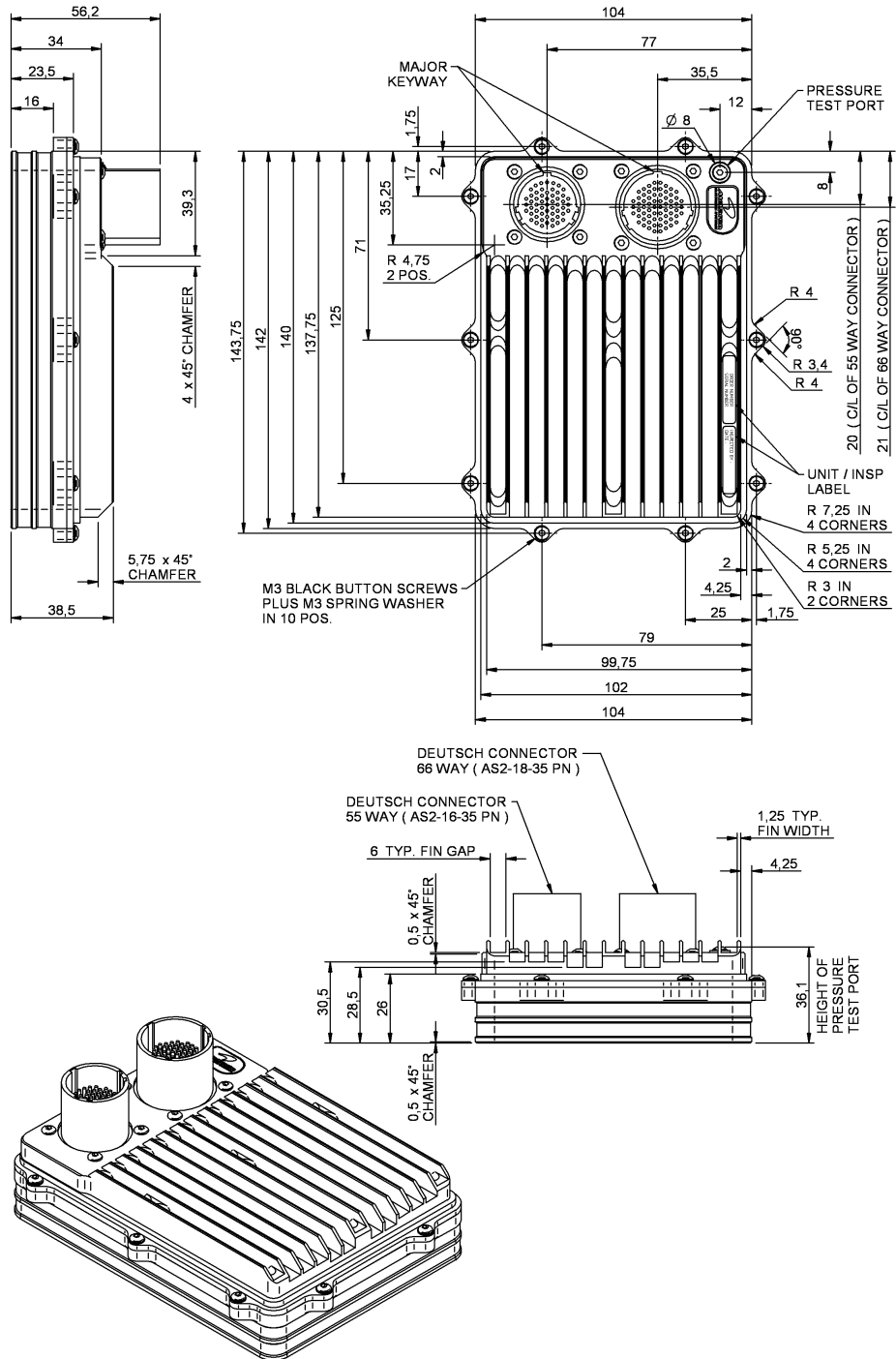


- Program version management
- ECU reprogramming
- Data tuning
- Live parameter display
- Puma link
- ActiveX interface
- CAN configuration
- Data Acquisition configuration



- Live data display via ethernet or wireless
- Upload of logged data
- Waveform, scatter, bar chart, histogram, FFT display types
- MATLAB export
- Numeric functions
- ActiveX interface

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Description	Order Code
TAG-400 (16Mbyte logging memory)	O 030 012 011 000
TAG400 (1Gbyte logging memory)	O 030 012 011 006