

ENGINE CONTROL UNIT

TAG-400i



The TAG-400i is a compact, self-contained engine management system and data logger for race engines.

The unit is an evolution of the TAG-400 which has been used successfully in open-wheel and motorcycle racing applications. The TAG-400i has extended functionality with increased processing power and I/O capability.

The TAG-400i exploits Power PC technology, but with an uprated processor that now offers more than 6 times the application processing power than the TAG-400, providing a powerful and flexible platform for extracting the optimum performance from an engine.

The TAG-400i can be offered as part of a turnkey system or can support customer prepared applications autocoded from Simulink models using our Graphical Development Environment (GDE).

Electrical

- 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 1Gbyte
- High performance application processor running at 264MHz

Mechanical

- Case material hard black anodised aluminium
- Weight 939g

Other Features

- One System Monitor configuration tool software licence supplied per team purchasing TAG-400i

Application

- Control and monitoring of engine and/or gearbox

Connection Definition

- Integral, sealed, military standard connectors

Environmental

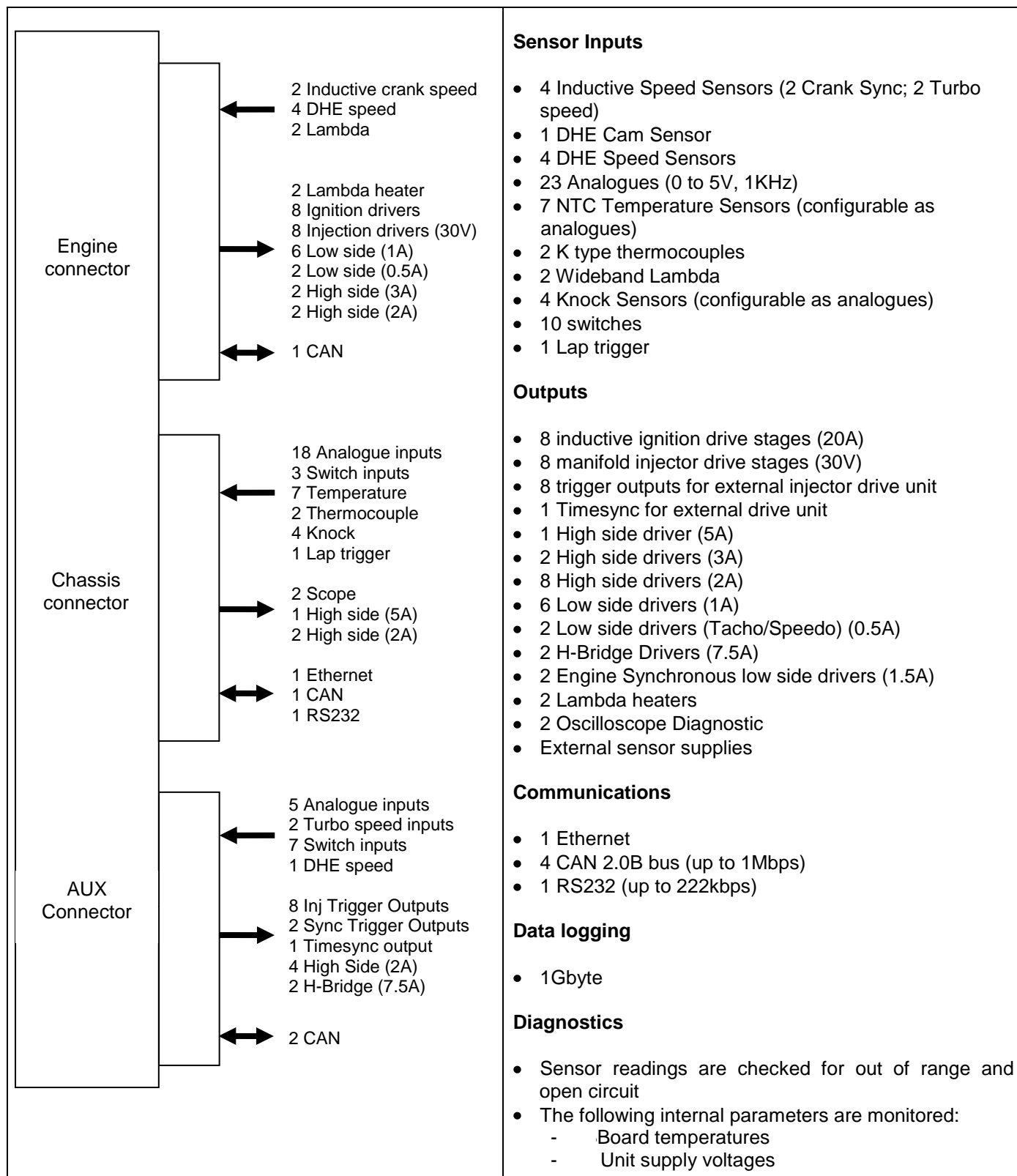
- Splash resistant to standard motorsport fluids
- Lids sealed with O rings and screws sealed with silicone rubber
- Maximum humidity 95% non-condensing
- Minimum operating temperature -10°C
- Internal temperature not to exceed 70°C as measured by internal diagnostic sensors
- Storage temperature -10 to +85°C
- Vibration 100 to 1000Hz, all axes, 24hrs

Electro Magnetic Compatibility

- Complies with the essential protection requirements of 89/336/EEC

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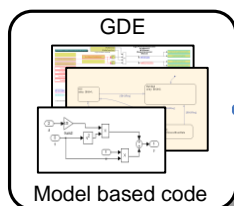


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TAG-400i development system

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



Engine control unit



TAG-400i

- 8 Cylinder engine control
- Onboard ignition and injection drive stages
- Lambda and knock interfaces
- 100baseT ethernet
- 4x CAN interfaces
- Onboard logging memory and data acquisition system

Application tool



System Monitor

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

Data analysis

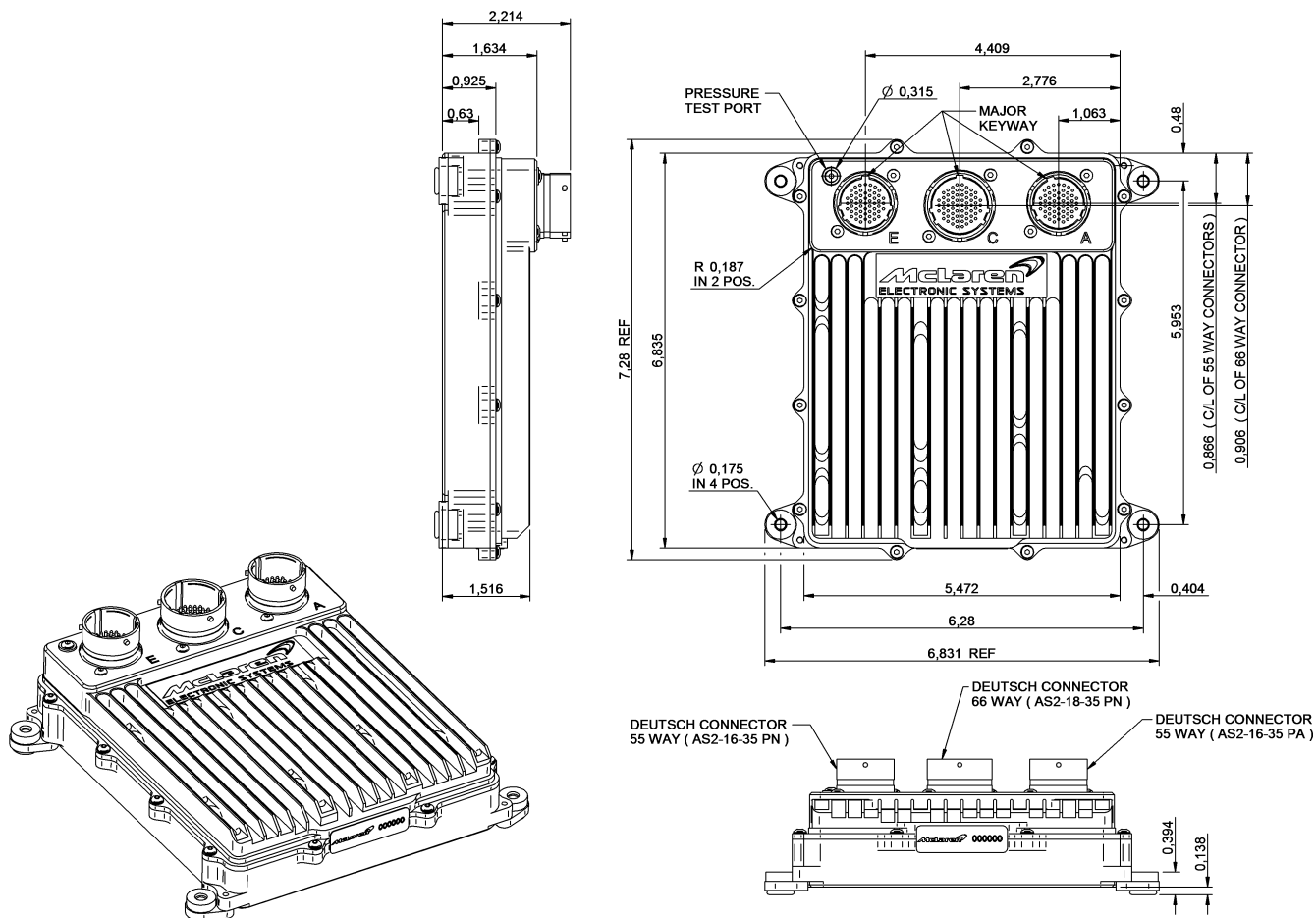


ATLAS

- 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-400i	O 030 012 015 000