

# Electronic Systems

KAntrak™ GEM SOFTWARE



The Generic Engine Monitor (GEM) is an extremely powerful and versatile piece of software that allows the user to connect the KAntrak™ 2700/2710 display directly to the J1939 or J1587 network on their vehicle or equipment. It displays comprehensive information on engine and transmission data, active and stored alarms (where supported), and is a trip and fuel computer.

The five soft keys located at the bottom of the display are used to easily navigate through intuitive menus to configure the display. The GEM offers user selectable icon based screen layouts as well as including a comprehensive multi language text based fault warning and acknowledgements system.

Single, Tri and Quad screen layouts are available, enabling several parameters to be monitored and displayed at any one time.

Integrated memory is used for data logging the parameters being monitored, which can provide invaluable diagnostic information.

Europe: North America: Electronics: Christopher Martin Road, Basildon, Essex SS14 3ES, UK 300 South Cochran PO Box 588 Willis, TX 77378 USA 90 – 28<sup>e</sup> Rue Grand-Mère (Québec) G9T 5Z8 Canada www.kongsbergautomotive.com Tel: +44 (0) 1268 522 861 Tel: +1 936 856 2971 Tel: +1 819 533 3201

email: info.pps@ka-group.com

# KAntrak™ GEM SOFTWARE

### TYPICAL GEM DISPLAY SCREENS

Tri-screen, analogue readout



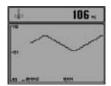




Quad screen analogue



Uni-screen, graph (history) readout



### DISPLAYED DATA

# **Engine Coolant Temp** Engine Intercooler Temp Engine Oil Temperature 1 Transmission Oil Temperature Turbo Oil Temperature Fuel Temperature

Intake Manifold 1 Temp Air Inlet Temp. Exhaust Gas Temp Auxiliary Temp 1 Engine ECU Temp Exhaust Gas Port 1 Temp

Exhaust Gas Port 2 Temp Turbo 1 Compressor Inlet Temp

Fuel Delivery Pressure Barometric Pressure Auxiliary Pressure 1 Boost Pressure Air Inlet Pressure Air Filter 1 Differential Pressure Injector Metering Rail 1 Pressure Injector Metering Rail 2 Pressure **Coolant Pressure** Engine Oil Pressure

Transmission Oil Pressure Clutch Pressure Air Start Pressure Injection Control Pressure

**Electrical Potential Battery Potential Switched Net Battery Current** Alternator Potential Alternator Current

ruei nemaining
Fuel Rate
Instantaneous Fuel Economy
Trip Fuel Economy
Trip Fuel
Trip Fuel Rate
Total Fuel Used
Fuel Leakage 1

Input Shaft Speed Output Shaft Speed Engine Speed Turbo 1 Speed

**Engine Desired Operating Speed** Navigation Wheel based Vehicle Speed

Fuel Level Acceleration Position Throttle Position Engine Oil Level Coolant Level

> Estimated % Fan Speed Drivers Demand % Torque Actual Engine % Torque Torque Use at RPM

Fuel Leakage 2

Fuel Remaining

## Distance Remaining Trip Distance Total Vehicle Distance

Engine coolant pressure

**Total Engine Hours** Trip Engine Hours Service Hours

Torque Converter Lock-Up Current Gear Selected Gear **CANTX** Disable

3
Accelerator Pedal Position
Engine Load
Fuel pressure
Fuel level
Water in fuel
Engine Oil level
Engine Oil filter differential pressure
Engine Oil pressure
Boost Pressure
Intake manifold temperature
Air inlet pressure
PART NUMBERS

Barometric pressure **Engine coolant Temperature** Coolant level Transmission oil pressure Crankcase pressure Battery voltage - switched Battery voltage - actual Exhaust temperature Fuel temperature Engine oil temperature Transmission oil temperature Fuel rate Engine speed Total Engine hours Total Fuel used Auxiliary Temperature #1 Navigation Based Vehicle speed Engine speed sensor Timing Sensor ECU 8V DC Supply 5 Volt DC Supply Engine Fuel metering

GEM Software on a KAntrak™ 2700 947030 GEM Software on a KAntrak™ 2710 948030

### FEATURES:

- Data is available in multiple formats and measurement units
- Choice of 8 Languages:
- English
- French
- German
- Spanish
- Portuguese
- Italian
- Swedish
- Dutch
- Engine and transmission fault data is handled by a user warning and acknowledgement system
- Comprehensive fuel management and trip computer facilities
- Automatic last screen store and a keyboard lock
- Engineering screens are available such as Comms and Message Database viewers
- Alarm data and engine source filtering are user selectable. If supported by the ECU engine configuration data can be viewed
- · Users are able to specify the engine service interval prompt and also the fuel tank capacity for fuel and distance calculations
- The KAntrak<sup>™</sup> displays offer proven high levels of electrical, environmental and mechanical performance in tough applications
- Customized splash screens available
- · Settings can be locked using PIN code.

