



## ELECTRONIC SYSTEMS

KAntrak™ 2700/2710 GEM4 SOFTWARE UPDATE



### AT A GLANCE

- Data is available in multiple formats and measurement units
- Choice of 9 languages
- 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

### Product Description

KAntrak™ displays and GEM software with new parameters for the Tier4 legislation.

As vehicle and industrial equipment emissions regulations become ever more stringent with the Tier4 legislation, new parameters are required for engine and vehicle monitoring systems. With the introduction of the new GEM4 software Kongsberg Automotive has included the Tier4 parameters that are most often required.

The latest version of the Generic Engine Monitor (GEM4) 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, 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 GEM4 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 new "Tier4 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.

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### Product Specifications

#### New Parameters Added

##### Diesel Particulate Filter 1 Soot Load Percent

Indicates the soot load percent of diesel particulate filter 1. 100% is the level at which active diesel particulate filter regeneration should be triggered.

##### Diesel Particulate Filter 1 Ash Load Percent

Indicates the ash load percent of diesel particulate filter 1. 100% is the level at which diesel particulate filter ash service should be performed.

##### Catalyst Tank Level

A special catalyst uses chemical substance to reach legal requirement for NOX emissions. This parameter indicates the level within that catalyst tank.

##### Catalyst Tank Temperature

This parameter monitors the temperature of the reagent in the storage tank.

##### Aftertreatment 1 Exhaust Gas Temperature 1

The reading from the exhaust gas temperature sensor located farthest upstream in the aftertreatment system in exhaust bank 1.

##### Aftertreatment 1 Exhaust Gas Temperature 3

The reading from the exhaust gas temperature sensor located farthest downstream in the aftertreatment system in exhaust bank 1.

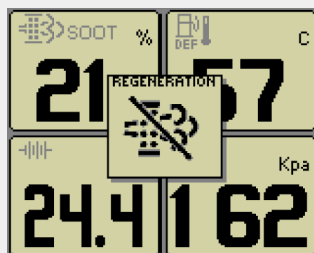
All new parameters can be viewed in quad screen or three screens in demo mode, normal mode or Db VIEWER if data are available on the network.

#### STATUS ADDED

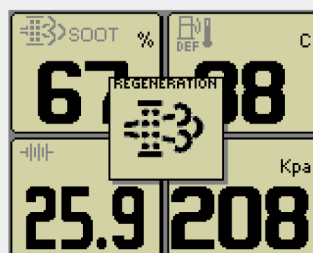
**Diesel Particulate Filter Active Regeneration Inhibited Due to Inhibit Switch**  
Indicates the state of diesel particulate filter active regeneration inhibition due to the Diesel Particulate Filter Regeneration Inhibit Switch.

##### Diesel Particulate Filter Active Regeneration Status

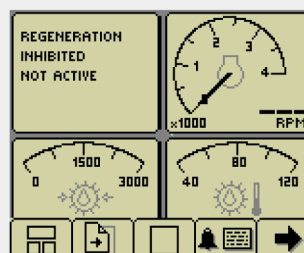
Indicates the state of diesel particulate filter active regeneration. Status can also be viewed in quadscreen mode. If status are available on the network, it can be accessed like others parameters, by scrolling through the list with arrow.



Regeneration inhibit popout



Regeneration active popout



Regeneration status in quadscreen

#### New part numbers

GEM4 Software on a KAntrak 2700 947065

GEM4 Software on a KAntrak 2710 948065

### Features

- Data is available in multiple formats and measurements
- Choice of 9 Languages:
  - English
  - French
  - German
  - Russian
  - 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™ displays offer proven high levels of electrical, environmental and mechanical performance in tough applications
- Customized splash screens available
- Settings can be locked using a PIN code.