

## **PRESS INFORMATION**

### **Mecel Launches Ion Sensing for Racing Applications**

Åmål, Sweden – January 9, 2002

**Mecel has now entered the racing market by developing the ion-sensing technology to meet the highest demands for engine applications in extreme environments. Mecel can provide ion-sense solutions such as the Ion-Sense Module (Mecel ISM) enabling monitoring and control of each cylinder individually at every combustion event to optimize engine performance and efficiency even during very highest engine revolutions.**

**Mecel will exhibit its cutting-edge innovations in ion-sensing technology at the Autosport International 2002 in Birmingham, UK, on January 10 – 11, 2002 and for the first time in public demonstrate applications for racing engines.**

The Ion-Current Sensing Technology is excellent for in-cylinder combustion monitoring. Ion-current sensing is done through the already existing standard spark plug, no need for additional sensors or actuators. The Mecel Ion-Sensing Module (ISM) is capable to extract information such as misfire, knock intensity, torque, COV of torque, location of peak pressure and air-fuel ratio. These parameters are extremely difficult or even impossible to monitor by other means during such tough conditions as in a racing engine at full speed.

- We provide state-of-the-art solutions in engine control based upon our long experience in electronics and signal conditioning for improved performance and efficiency in combustion engine applications, says Jan Nytomt, Business Area Manager Engine Systems.

Mecel has developed the ion-sense analyzing module, Mecel ISM, to be used in engines with up to twelve cylinders. The information extracted is used by the control algorithm to optimize engine performance and efficiency. The Mecel ISM can be easily integrated with existing engine management systems.

- Based upon our expertise and resources we can offer customized solutions for various applications such as racing engines where the requirements are extreme and very challenging, Jan Nytomt concludes.

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## **About Mecel**

Mecel AB is a systems and software house with operations in Åmål and Gothenburg, Sweden. Since its start in 1982 Mecel has supplied advanced engineering services and break-through technology concepts to the international automotive industry. The customers are among the leading manufacturers of vehicles and combustion engines, as well as their systems suppliers. Mecel holds approx. 40 patents mainly referring to direct ignition, ion-sensing technology and engine control.

Mecel has approx. 180 employees. Certified for ISO 9001.

Mecel is a subsidiary of Delphi Automotive Systems.

Further information about Mecel is available at [www.mecel.se](http://www.mecel.se).

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