# Press Release

May 2004

**LEM introduces versatile current transducers for current measurement in railway applications**

**Key points:**

- **Modular design**
- **Very compact package**
- **Meets European traction standards**

LEM has added two new members to its LTC series of current transducers for railway traction applications. Smaller than the LTC 600 and 1000-S models, they keep the same shape but have been designed for 350 and 500$A_{RMS}$ nominal current measurements.

The LTC 350 and 500-S occupy only 259$cm^3$, measuring only 86 x 86 x 35mm. They offer the same features as the existing family members, including modularity for mounting versatility (horizontally or vertically), an optional integrated busbar and shielding as standard.

The internal circuitry of the transducers has been designed to allow rotation, to optimise performance in the presence of perturbing fields from adjacent conductors or the external environment. A dual fastening mode is offered as standard for the secondary connections: either 4 x M5 threaded studs for a robust connection or 4 x Faston (6.3 x 0.8 mm) for quick installation. A range of versions is available on request to accommodate almost all the connection types used in traction applications.

With an operating temperature range of -40 to +85$^{o}$C and an isolation test voltage up to 12kVrms/ 50Hz/1min, the transducers comply with the European Traction Standards EN50155 and EN50124-1 (insulation levels, creepage and clearance distances). All materials used satisfy UL94-V0 and comply with the smoke and fire classification requirements for the traction industry. The transducers' CE marking guarantees their conformity with the European EMC directive 89/336/EEC. LEM Components offers a five-year warranty for the LTC series, as it does for all its transducers.

**LEM**

LEM is a Swiss company serving markets connected with the transformation and use of electricity, particularly in the field of power electronics. It designs, develops and manufactures high-performance solutions, ranging from active components to the most complex measuring systems.

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**Figure: Mounting versatility with the LTC models (Photo LEM)**