



PRESS INFORMATION

LEM becomes the first company to receive the German certification Baumusterprüfbescheinigung for the EM4TII DC energy meters

Geneva, Switzerland – February 21, 2019. LEM, the market leader in providing innovative and high-quality solutions for measuring electrical parameters, is pleased to become the first company to receive the German certification for the EM4TII (Energy Meter For Traction) DC energy meters.

In the 21st century, the world faces a huge challenge to reduce CO₂ emissions. The impact of CO₂ on global warming has been proven, and the progress of new technologies in power electronics and battery chemistry is accelerating. The introduction of an alternative to the combustion engine driven car, the electric vehicle (EV) is a massive advance in technology and the market is undeniably booming.

The steadily increasing battery capacity has helped the EV market grow, but the most appealing use cases remain short journeys in an urban setting. To make electric vehicles the vehicle of choice for the wider market and to reduce the carbon footprint of private transport, a network of fast chargers must be installed, allowing users to make long trips without worrying about range or the charging time. Energy suppliers have already started to deploy fast charger networks (30min, 150kW) and expect ultra-fast chargers (<10 min, 350kW) by 2020. Fast and ultra-fast chargers provide direct current (DC) as they are directly connected to the battery.

As from April 2019, new regulations will enter in force that require energy providers to only charge energy delivered to the car (it is normal not to pay the losses related to the performance of the charger). Today only certified AC energy meters exist for billing electricity to the end user.

As DC solution, LEM proposes the proven DC meter for railway applications called EM4TII which has successfully passed all required tests and has obtained the type approval certification, the Baumusterprüfbescheinigung by PTB (Physikalisch-Technische Bundesanstalt) last month. In parallel, for the future requirements of the market, LEM will introduce soon a new 'LEM Direct Current (DC) Meter', much more compact than the previous version of the EM4TII. This new meter will be as accurate and universal, whatever the topology of the charging station (up to 600 kW).

Mr Mathieu Béguin (Product marketing engineer) summarises, "Originally developed for railway applications, we identified an opportunity to adapt the EM4TII DC Meter to comply with German regulations. Information about the new DC Meter will follow in due course."

**LEM – At the heart of power electronics**

LEM is the market leader in providing innovative and high-quality solutions for measuring electrical parameters. Its core products - current and voltage transducers - are used in a broad range of applications in drives & welding, renewable energies & power supplies, traction, high precision, smart grid, conventional and green cars businesses. LEM's strategy is to exploit the intrinsic strengths of its core business, and to develop opportunities in existing and new markets with new applications. LEM is a mid-size, global company with approximately 1'530 employees worldwide. It has production plants in Beijing (China), Sofia (Bulgaria), Geneva (Switzerland) and Tokyo (Japan), and a dedicated R&D Center in Lyon (France). With regional sales offices near its customers' locations, the Company is able to offer a seamless service around the globe. LEM has been listed on the SIX Swiss Exchange since 1986; the company's ticker symbol is LEHN

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For further information, please contact:**Stéphane Rollier**

Product & MarComs Manager

Tel: +41 22 706 1449

E-Mail : sro@lem.com

www.lem.com

Jennifer Deroche

Account Manager

Napier Partnership Limited

Tel: +44 (0) 1243 531123

Email: jennifer@napierb2b.com

www.napierb2b.com