



## PRESS INFORMATION

### LEM introduces AI-PMUL digital integrator for Rogowski coils

**Geneva, Switzerland – May 7th, 2019** – LEM, the market leader in the provision of innovative and high-quality solutions for measuring electrical parameters, introduces the integrator AI-PMUL to complete its flexible clip-around Rogowski coil offering. AI-PMUL is a versatile digital signal conditioner of Rogowski coils secondary signal which offers a wide range of standard analogue True RMS and instantaneous outputs.

The Rogowski coils output voltage is proportional to the derivative of primary current. An electrical integrator circuit is therefore necessary to convert this signal, so it is proportional to the value of the primary current. This integrator is an essential component in current measurement with a Rogowski coil, and the amplification stage architecture and implementation have a major impact on the sensor's electrical performance such as linearity, phase-shift and frequency bandwidth.

With a linearity error below 0.1% and combined with LEM ART & ARU (coming soon) class 0.5 Rogowski coils, it offers a universal metering and monitoring solution with an exceptional measurement accuracy up to 5000 A.

The integrator AI-PMUL covers in one universal product all the ratings that are expected. The simple configuration and the clear status visible from the front fascia allow it to configure with ease. The setting of the current range, input sensitivity and output selection is made through a simple, reliable and error free system using ergonomic push buttons (x2) and visible bi-colour led where green is for current range and red is for input sensitivity and output selection.

Users can select between 12 current ranges from 100 A to 5000 A, 6 Rogowski coil sensitivity from 22.5 to 120 mV/kA and 6 possible outputs (4 true RMS output: 0-20 mA, 4-20 mA, 0-5 V and 0-10 V and 2 instantaneous voltage outputs: 0-225 mV and 0-333 mV).

A 1 A instantaneous output version is also foreseen soon.

Working over a temperature range from -25°C to +70°C and operating from a single supply voltage of +24V, AI-PMUL it is offered in a very compact size 100x78x15 mm to be mounted on a 35mm DIN rail.

For small current measurement and difficult conditions, an input SMA coaxial connector is proposed as an option.

Specifically, for three-phase system up to 3 x AI-PMUL models can be stacked together with an optional connector to share a single power supply.

AI-PMUL integrator series is CE marked and covered by LEM's five-year warranty.

**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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