

LEM new IT xx5 series provides exceptional accuracy over wide temperature range of -40°C to +85°C

Key points:

- **Closed-loop Fluxgate transducers measure DC, AC or pulsed current from 60 A up to 600A**
- **Exceptional accuracy over the temperature range from 0.004 % to 0.04 % of I_{PN}**
- **Wide operating temperature range from -40 to +85°C**
- **Very low offset over temperature range up to 400 ppm**
- **Excellent linearity over temperature range up to 12 ppm**
- **Variety of panel mounting topologies**

LEM extends its range of high-accuracy current transducers, announcing the new series of IT xx5 transducers for non-intrusive and isolated nominal measurements of DC, AC and pulsed currents from 60 A to 600 A. The range includes 4 new models: IT 65-S, IT 205-S, IT 405-S and IT 605-S.

These new models offer an extended operating temperature range of -40 to +85°C, compared to the +10 to +50°C temperature range of previous IT models, allowing their use in a wider range of applications, including high precision power supplies, medical equipment, calibration units, precision and high stability inverters, power analysers and metering.

These new models provide the high performance of fluxgate technology based transducers across the extended temperature range, delivering extremely high accuracy with linearity over temperature range better than 12 ppm, and a low offset over temperature range between 36 to 400 ppm (according to the model). The fast response time to di/dt step changes is less than 0.5 μ s, due to a precise and consistent winding process.

The IT xx5 series has been designed to operate from a bipolar +/-15 V DC power supply and will accommodate round primary conductors of 26 and 30 mm diameter, depending upon the model used. In addition to their normal current output, the transducers offer an additional output indicating the transducer state (low or high output levels) and an external LED showing normal operation.

The new IT xx5 range is also fully compatible with the previous LEM IT range, fitting the same footprint. These transducers can be easily retrofitted into old installations while maintaining the various compact sizes for each current range and a variety of panel mounting topologies (flat or vertical), without compromising the high insulation level provided between the primary and measurement circuits.

The transducers are CE marked and are 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, 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. It has production plants in Beijing (China), Geneva (Switzerland), Machida (Japan) and Sofia (Bulgaria). With its regional sales offices close to its clients' locations, the company offers a seamless service around the globe. LEM is listed on the SIX Swiss Exchange since 1986; the company's ticker symbol is LEHN

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