

TT Electronics introduces Modular Current Sensor

Approach

Diverse, high quality, high performance modules ideal for harsh environment, aerospace and defence applications.

Woking, UK, 18 July 2019 – [TT Electronics](#), a global provider of engineered electronics for performance critical applications, today announced an innovative approach to developing [customised current sensor solutions](#) for the harsh environment requirements of the aerospace and defence market.

Building on the company's existing range of current sensor modules, this new and highly diverse modular technique leverages Hall-Effect and Rogowski sensors, as well as amplifiers and digital converters. Through harnessing TT's extensive design engineering expertise, the process allows module customisation within on-going, developing, upgraded and retro-fit programmes to meet economic, high reliability and specific requirements of proprietary solutions.

Ambient temperature ranges of -55°C to +125°C and a 30A to 2000A AC or DC capability make these current sensor modules ideally suited for electrical systems, generators and motor drive applications. With a generic single-phase configuration, these TRL5 standard circuit boards can be coated, fully potted, built into a housing, or re-configured into a multi-phase product. Such flexibility of design enables the customer to select key sensor parameters to create their very own unique fit.

“The measurement of current is vitally important in flight critical aerospace power and instrumentation systems. In these applications, interpretation is reliant on the accuracy of the data provided by these solutions,” said Ben Fox, Business Development Director, TT Electronics. “Taking TT's modular current sensing approach, customers can now utilise their very own uniquely adapted high reliability solution for their own tailored requirements.”