Press release

25.04.2017

With Mx-STG2 6, IPETRONIK presents a measurement module with six high-speed DMS inputs up to 100 kHz

With the Mx-STG2 6, IPETRONIK is extending its X-LINK module series – comprising the Mx SENS2 8, Mx-SENS2 4 and Sx-STG – with a six-channel measurement module. This compact device has been designed for mobile measurement applications with high requirements in terms of reliability, flexibility and high-speed signal sampling rates and is ideally suited for applications used for determining operational stability (DMS).

It supports DMS sensors for measurement on 1/4, 1/2 and full bridges, and voltage measurement in the measurement ranges from ±0.01 V to ±1 V. The analogue inputs feature a 24-bit sigma delta AD converter and are voltage-stable up to ±100 V. Each input has its own adjustable, dual sensor excitation up to a maximum of ±5 V / ±45 mA. The XCP-on-Ethernet connection also presents a number of advantages compared to CAN-based modules: A large number of modules can for instance cater to multi-channel applications with more than 100 channels. What is more, the high channel data rates of up to 100 kHz are ideally suited for highly dynamic DMS tests. In addition, the Ethernet technology makes it possible to cover large distances between the measurement modules, which is particularly advantageous for structural testing on large components, such as on cranes, for example. The software integration comprises the integration into IPEmotion via the X-PlugIn V2.04 as well as the integration into INCA 7.1 and INCA 7.2. This is implemented via the IPEaddon INCA V05.07.

Furthermore, the Mx-STG2 6 offers useful additional functions such as offset adjust, shunt check for the plausibility check of the sensor, internal resistors for bridge completion selectable by software with 120, 350 and 1 kOhm in addition to an overcurrent detection facility for the sensor excitation. As an option, the module offers TEDS Class 2 support (Transducer Electronic Data Sheet). The line break detection of the measurement inputs can be activated via the software. All the measurement inputs, CAN bus, power supply and housing feature full galvanic isolation from one another. Status LEDs at each measurement input monitor correct channel allocation and indicate excess current during measurements.

The Mx-STG2 6 is designed for engine compartment applications. It has a large 213 mm x 45 mm x 62 mm (W x H x D) anodised aluminium housing offering IP 67 rated protection. The module works in a temperature range from –40 °C to +105 °C with a relative humidity from 5 to 95 %. It requires a voltage of 9 VDC to 36 VDC. If the voltage falls below six volts, the module is switched off. The power consumption is typically around 5.0 watts. By way of connection variants, seven and ten-pin Lemo sockets in addition to nine-pin SUB D sockets are available. The Mx-STG2 6 can be operated both as a stand-alone measurement module as well as together with additional modules of the X and M-series. This is possible thanks to a special fastening mechanism, which allows toolless module to module connection with other IPETRONIK devices.

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About IPETRONIK

IPETRONIK GmbH & Co. KG is a globally operating company for mobile measurement technologies, DAQ software, engineering services and test bench technology for the automotive industry. The combination of these strategically interrelated business divisions is unique to today's market. Since the company's founding in 1989, OEMs and Tier 1 suppliers have relied on the high quality, reliability and precision of IPETRONIK products and services to meet demanding research, development and testing requirements in automotive and numerous other industrial applications. The innovative hardware/software solutions and test bench technology are developed and produced in Germany. A worldwide distribution network and its own subsidiaries for example in India, Sweden and North America ensure global distribution with local support. IPETRONIK is owned by INDUS Holding AG.

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