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## High-density thermocouple simulation module launched by Pickering Interfaces

Up to 32 channels in a single PXI slot

**Jan 23, 2020 – Clacton-on-Sea, UK** – Pickering Interfaces, a leading provider of modular signal switching and simulation for electronic test and verification, has launched a low voltage output module ideal for simulating the operation of a thermocouple. The 41-761 occupies a single PXI slot yet can provide up to 32 independently-isolated channels of thermocouple simulation. With ranges of +/-20mV, +/-50mV and +/-100mV it is suitable for simulating any thermocouple type.

Available with a choice of 32, 24, 16 or 8 channels, the 41-761 is part of a growing family of thermocouple simulators from Pickering. Each channel provides a low voltage output across two connector pins capable of providing  $\pm 20\text{mV}$  with  $0.7\mu\text{V}$  resolution,  $\pm 50\text{mV}$  with  $1.7\mu\text{V}$  resolution and  $\pm 100\text{mV}$  with  $3.3\mu\text{V}$  resolution, covering most thermocouple types. The use of two wire outputs and isolation from ground ensures that the 41-761 can be used to accurately simulate low voltages even in the presence of common mode voltages in the system. Each simulation channel can provide an open circuit setting to simulate faulty wiring connections to a sensor. For improved accuracy, each channel of the Low Voltage Output carries accurate calibration data stored in EEPROM on the module. Regular calibration of the channels is not necessary.

When used for Thermocouple Simulation the 41-761 can be connected straight into the measurement system, bypassing the need for Isothermal Blocks and Cold Junction Compensation. To assist in this, Pickering also offers a 78-pin connector solution that has 32, 24, 16 or 8 copper twisted pairs terminated with mini copper thermocouple plugs.

“The accurate and reliable simulation of thermocouples is required by customers in demanding markets such as defense, aerospace and automotive”, said Keith Moore, CEO at Pickering Interfaces. “This new, high-density solution can be supported in PXI and Pickering’s modular LXI/USB chassis.”

Further information is available at [www.pickeringtest.com](http://www.pickeringtest.com).



## About Pickering Interfaces

Pickering Interfaces designs and manufactures modular signal switching and simulation for use in electronic test and verification. The company stands behind all of its manufactured products with a **standard three-year warranty and guaranteed long-term product support**. We offer the largest range of switching and simulation products in the industry for PXI, LXI, and PCI applications. To support these products, we also provide cable and connector solutions, diagnostic test tools, along with our application software and software drivers.

Pickering's products are specified in test systems installed throughout the world and have a reputation for providing excellent reliability and value. Pickering Interfaces operates globally with direct operations in the US, UK, Germany, Sweden, France, Czech Republic and China, together with additional representation in countries throughout the Americas, Europe and Asia. We currently serve all electronics industries including, automotive, aerospace & defense, energy, industrial, communications, medical and semiconductor. For more information on signal switching and simulation products or sales contacts please visit [www.pickeringtest.com](http://www.pickeringtest.com).

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