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New Isolated Input Module for Thermocouple Temperature Monitoring and Millivolt Measurements

Opto 22's SNAP-AITM-4i Thermocouple Input Module Provides Channel-to-Channel Isolation for Trouble-free Installation and Accurate Temperature Measurements

Temecula, CA – June 29, 2011 – Opto 22 has introduced the SNAP-AITM-4i thermocouple and millivolt input module for industrial temperature monitoring and data acquisition, helping automation engineers and technicians achieve more accurate temperature readings, speed installation, and eliminate the need to purchase thermocouples with expensive, built-in isolation. The new module accepts up to four inputs from a wide range of thermocouples (commonly used in industrial, scientific, and medical research applications). All four of the module's channel inputs are individually configurable and channel-to-channel isolated.

Individually configurable inputs help automation engineers, system integrators, and original equipment manufacturers (OEMs) save system costs because the new SNAP-AITM-4i module accepts multiple signal inputs—reducing the need to purchase separate modules for different thermocouple types or millivolt signals. Built-in, channel-to-channel isolation prevents ground loops that could cause electrical interference and lead to false temperature readings, and helps panel builders and instrumentation technicians reduce installation and wiring costs, while simplifying panel design.

When used with an Opto 22 SNAP PAC I/O processor or SNAP PAC rack-mounted programmable automation controller (PAC), the SNAP-AITM-4i is ideal for high-resolution temperature monitoring and data acquisition for autoclaves, industrial ovens and furnaces, heat exchangers, and any other equipment that requires precise thermal regulation.

In addition to type B, C, D, E, G, J, K, N, R, S and T thermocouple inputs, each of the SNAP-AITM-4i's four channels can be independently configured to accept ± 150 mV, ± 75 mV, ± 50 mV, or ± 25

mV inputs. For applications with multiple thermocouple inputs, this flexibility makes installation easier, faster, and less expensive. The SNAP-AITM-4i is also optically isolated, transformer isolated, and comes with a lifetime warranty.

The SNAP-AITM-4i provides accuracy of 0.06% (90 μ V) @ 150 mV, 0.1% (75 μ V) @ 75 mV, 0.1% (50 μ V) @ 50 mV, and 0.2% (50 μ V) @ 25 mV (all measurements full scale.) Resolution is 6 μ V from -150 mV to +150 mV, 3 μ V from -75 mV to +75 mV, 2 μ V from -50 mV to +50 mV, and 1 μ V from -25 mV to +25 mV.

The SNAP-AITM-4i is available now at a list price of \$325.00 USD.

About Opto 22

Opto 22 develops and manufactures hardware and software for applications involving industrial automation and control, energy management, remote monitoring, and data acquisition. Opto 22 products use standard, commercially available networking and computer technologies, and have an established reputation worldwide for ease-of-use, innovation, quality, and reliability. Opto 22 products are used by automation end-users, OEMs, and information technology and operations personnel in over 10,000 installations worldwide. The company was founded in 1974 and is privately held in Temecula, California, USA. Opto 22 products are available through a global network of distributors and system integrators. For more information, contact Opto 22 headquarters at +1-951-695-3000 or visit

www.opto22.com.