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For Immediate Release

New, Motion Controller Features Dual Processors for Optimum Reliability and Performance of Motion Systems!

San Luis Obispo, California – 5 July 2006 – Trust Automation has introduced the innovative TA600 4-axis stand-alone Motion Controller for use with brushed, brushless, and stepper motor drives. The TA600 controller optimizes the performance and reliability of motion systems through the use of dual processors. For application program execution, host communication and general I/O controls, a high speed microcontroller is used. For the motion specific tasks, a DSP processor is used. This allows each processor to operate in its area of greatest reliability and highest performance.

Fully C language programmable, the default TA600 firmware uses an application proven, 3 letter command set, user programmable macros, programmable Enable, Fault, Home, and Limit levels. It also features an integrated Emergency Stop circuit for active or passive control of the complete system's safety features. The TA600 controller is ideal for: Gantry robots, pick-and place, assembly, inspection, automation, laser & water cutting, and medical applications such as surgical robots.

The TA600 controller features: Point-to-point, Trapezoidal, S-curve, and custom profiling; Linear interpolation; Position Velocity Time profiling; Electronic gearing; and Analog Feedback profiling, as well as Fast Event capturing inputs for the greatest degree of control possible. Optional dual Digital-to-Analog Converters (DACs, two per axis) provides for sinusoidal commutation of motors resulting in very smooth motion, especially when used with high performance brushless linear motors. Additionally, sinusoidal commutation of stepper motors results in performance similar to brushless rotary motors.

The one to four axis TA600 controller is able to integrate brush and brushless servo drives, and stepper drives for conventional and linear motors. For fast linear motor axes that require fast settling times a very fast 50 μ sec. servo update rate is incorporated. Three PID with feedforward tuning filters for each axis make standing, moving and stopping stability easy to achieve. Dual bi-quad filters for each axis make taming bad system harmonics possible. Feedback from incremental encoders, Hall magnetic sensors, and/or 14 bit analog feedback from a single or dual loop system is handled seamlessly.

Compact, measuring just 1.5 in. wide (38.1 mm) X 8.1 in. high (205.7 mm) X 7.4 in. deep (188.0 mm), and weighing just 2 lbs (0.9 kg) the TA600 controller is designed for use with a 24 to 28 VDC supply at 0.5 to 6 Amps (fused) and panel mounting.

About Trust Automation

Since 1990, Trust Automation has provided motion control products and engineering services for the needs of many industries. Examples of these products and services are: Stand-alone motion and machine controllers, SynqNet I/O and SynqNet Drives, Brushed and Brushless Rotary Motors, Interconnect Products and Automation Engineering consulting covering Mechanical, Electrical, Software and System aspects of machine design. Our products reflect quality, robust performance, and ease-of-use; a refinement attained over many years of helping Original Equipment Manufacturers meet and exceed their goals.

Trust Automation's electrical, mechanical, and software engineering teams provide comprehensive engineering services and consulting to a broad range of industries including semiconductor manufacturing, medical, entertainment, automotive, and aerospace. Our in-the-field experience with leading companies in these industries gives us the opportunity to solve today's cutting edge, real world challenges, challenges that must be solved by new ideas; new ideas that Trust Automation transforms into the Smart Solutions of tomorrow.

Trust Automation is headquartered in beautiful San Luis Obispo, on California's Central Coast.