High quality data acquisition and embedded control products.

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ICP DAS USA adds High-Speed Counter/Frequency Input Module to ModBus RTU line.

Control systems throughout the years have ranged between operations, communications, and critical process structures, dependent on the industrialized standard Modbus protocol. The designers of industrial control products at ICP DAS have added a new member to the established M-7000 line of data acquisition modules, the M-7080 High-Speed counter/frequency input module. M-7080 has two independent 32-bit counters for isolated or non-isolated input signals. M-7080 features the option of programmable logic voltage threshold levels and alarm outputs. In addition, it offers external gate control for isolated and non-isolated input, and input frequency measurement up to 100 KHz. The counter value and input signal frequency can be displayed directly to a 5-digit LED option without additional PC control. The M-7080B incorporates a battery back-up system that will save the EEPROM in the event of power loss.

Application Sample: The flexibility of the M-7080 counter was demonstrated in an application reading digital signals of 0-5 V, as well to counting contact pulses from a reed switch input. Simply by adding an external voltage and a reed switch to the input channel, the wire connection with a dry contact allowed the customer to provide redundancy to the analytics of the embedded control system implemented.

Setting the digital noise filter option allows users to eliminate extra counts due to contact bounces. The digital filter is designed as a pulse-width filter in both high/low pulse, and can be enabled or disabled for both non-isolated and isolated input. If the width of input signal is greater than 1ms, users can set the digital filter at 900 µs. Therefore, all noise below 900 µs will be filtered out. At the same time, the low width of the input signal must be greater than the minimum set low width of the digital filter.

The M-7080 High-Speed Counter/Frequency Input module is available in standard industrial Modbus RTU protocol and DCON protocol, and can be designed for a stand-alone control applications with the use of I-7188 embedded control modules to control the I/O ports of the I-7000/M-7000 modules directly without a host. Several Active X (OCX) controls are available for the development of applications. Additional utilities, drivers and libraries are published free of charge for use with famous third-party applications such as Labview, HP VIEW, Testpoint, Dasylab, Indusoft, and ISaGRAF (IEC61131). Users may use high-level languages for development, such as C, VB, and Delphi to write application programs. Plenty of library functions and demo programs are provided to let users develop programs easily under Windows, Linux and DOS operating systems.

ICP DAS USA provides a great variety of products with modular and universal solutions for any scale application or projects. To learn more about the variety of ideas and real projects integrated with ICP DAS hardware, visit our website at www.icpdas-usa.com, or give us a call, toll free, at 1-888-971-9888 and one of our engineers would be happy to assist in reviewing the project requirements, ensuring that the highest quality solution is presented in your final application.