



## Successful Product Application: B3 Systems/PCME-US

Recently B3 Systems / PCME-US, a leader in particulate monitoring systems, has chosen to implement ICP DAS's powerful I-7188 series embedded controllers into their latest successful OEM application. B3 / PCME-US teamed up with ICP DAS USA in order to offer powerful embedded control, and data acquisition capabilities to their impeccably precise line of dust and particulate monitoring devices.

In this particular application, B3 approached ICP DAS USA with a need for a stout and reliable embedded control / data acquisition hardware; which would be integrated into a cost effective particulate monitoring system for OEM use. After researching the application, ICP and B3 agreed on the I-7188XB series embedded controller. The I-7188XB boasts a robust AMD AM-188 40MHz processor at the helm of control duties. The controller also offers: 256kb SRAM, 512kb Flash Memory, Self Tuning RS-485 ports, User defined I/O, and in B3's case, a custom proprietary expansion board, allowing additional RS-232 communication (*ICP offers an extensive line of expansion boards for the I-7188 controllers, to better suit your needs*). Regarding data collection, ICP suggested the I-7019R 8-channel universal analog input module, with over-voltage protection. The I-7019R offers infinite analog data gathering possibilities with isolated, user defined DAQ channels. With 16-bit resolution, and a rapid sampling rate, the I-7019R module allows precise and immediate data acquisition from B3/PCME-US's DustSense-10 particulate monitoring device, to the I-7188XB embedded controller.

ICP recently had the opportunity to speak with Robert Baxter, B3/PCME-US's president, and he had nothing but great things to say about the implementation of ICP's hardware into his product lineup. Not only was B3 impressed with the reliability and durability of the ICP product, but also with the ease of integration into their developmental process. When asked about his overall experience with ICP DAS USA, Baxter stated "...Through the excellent technical support, and expertise provided by ICP DAS USA, we were able to get to market much quicker, with a product we could stand behind!"

Once again, through superior technical expertise, and cost effective solutions, ICP DAS has allowed B3 systems to produce an effective and reliable solution for the particulate monitoring industry.

