



CAGE/NCAGE Code: 3FNFO

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High Quality Data Acquisition and Embedded Control Products



Hoskin Scientific Application Summary

Hoskin Scientific, the leading distributor of ICP DAS USA products in Canada, recently contacted us with an innovative and successful product implementation summary regarding ICP DAS's I-7019 universal analog input modules. The said modules, working in conjunction with Hoskin's own custom fabricated data access terminals (allowing access to both the excitation signal, and differential analog signal), effectively monitor tensile strain and lapse across the surface of a retaining wall, and transmit the data remotely to a DasyLab powered PC, for evaluation.

The installation monitors strain across the retaining wall at three integral locations, with each monitoring point being roughly 1000m apart. Because of the specific requirements of the application, Hoskin needed to implement both a 10VCD excitation source, as well as completion resistors. Each monitoring installation consisted of an ICP DAS USA I-7019 analog input module, an ICP DAS USA KA-52F power supply, and two separate Hoskin Scientific fabricated bridge completion modules; containing three precision 120Ohm completion resistors, all housed in ICP DAS dummy modules.

The entire monitoring installation was networked to communicate via RS-485 between both the data acquisition modules, as well as the data logging source; in this case a remote PC. The RS-485 signal was transmitted over the 3000+ meter installation via "long haul" telephone cable, then through an ICP DAS I-7520 RS-232/485 converter, and directly into DasyLab on a local PC for data analysis and measurement.

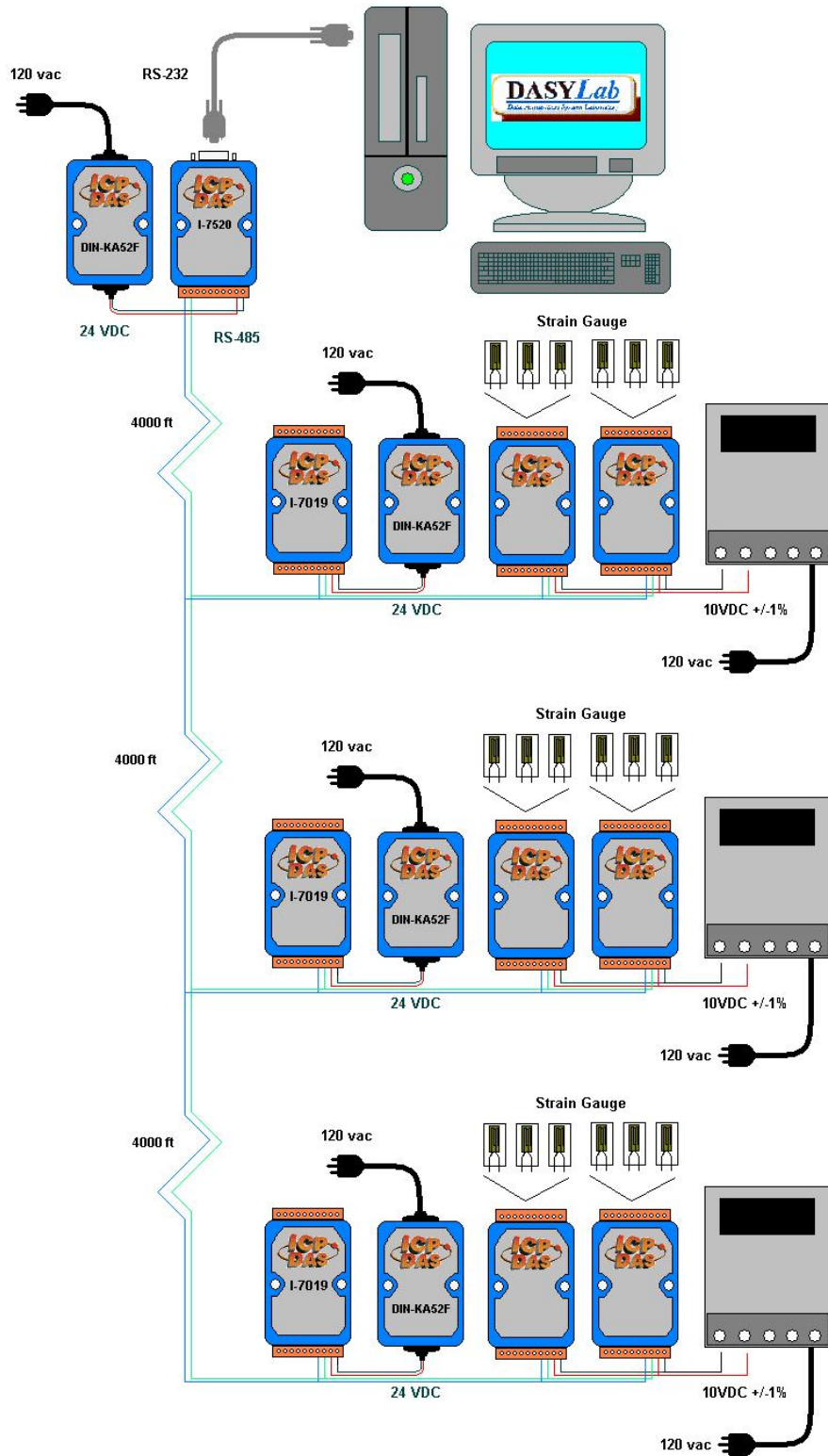
The end result yielded a low maintenance system, with minimal external wiring, allowing both remote and local access via multiple interface points. According to the project liaison, this particular installation has been in place for ample time, with no faults or failures to date. The ICP DAS hardware used in this integration was praised by both the end users, as well as the system integrators for this project, who found it rugged, dependable, and very easy to work with.





HOSKIN SCIENTIFIC LTD.

Sensors, Transducers and Instrumentation Since 1946



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