

Press Release

Acquisition of up to 16 inductive displacement transducers with a PCI board

Transducers are used in many automation applications where processes have to be controlled. The industrial environment demands nowadays an even higher precision of the transducers and consequently of the evaluating electronic with which they are acquired. ADDI-DATA proposes with the PCI board APCI-3701 a solution that meets this requirement.

Addi-Data has developed a new measurement board for the PCI bus, the board APCI-3701, for the acquisition of 8 to 16 inductive displacement transducers. The board can connect a lot of half-bridge or LVTD transducers with a resolution of 16 bits. The amplitude and frequency supply (1 to 50 kHz) are adjusted by software. A library including the technical features of the supported sensors is delivered on-board: the connected sensors are programmed through software and the board adapts automatically to their properties. The user disposes of the following diagnostic functions: short-circuit and break line recognition of sensor supply and signal line. The acquisition is started through external or software trigger or through timer. Data is read through a 32-bit DMA or a 32-bit data access directly in the PC memory. The board generates an interrupt precisely after a predefined number of measured data.

16 additional I/O channels with isolation can process 24V digital signals. The connecting box is equipped with 5 pin female sockets: therefore, the sensors can be directly connected.

Software support includes standard drivers for Windows XP/2000/NT 4.0 and Linux as well as programming examples for C, VB ...