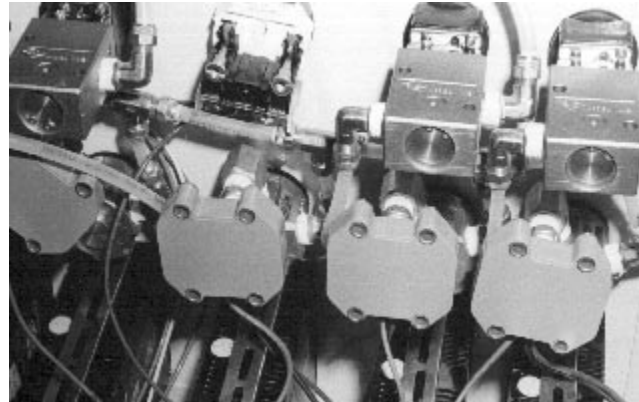


## Laminating Equipment

PRESSURE  
AP 00263



### PRODUCT

242PC pressure sensors

### APPLICATION

Laminating machines are designed to handle a wide variety of materials. Traditionally, operators have only analog gauge readings, or merely "feel" to maintain maximum effective pressure on the brakes, clutches, and rollers. But, even skillful operators have trouble keeping the tension exactly where it should be.

By installing MICRO SWITCH enclosed pressure sensors on the output side of the air regulator valves on laminators, the customer was able to convert air pressure to voltage signals with a minimum of modification. One pound of air pressure readily converts to .033 volts.

Digital volt meters were then designed to fit onto the trim control panels. The digital volt meters were adjusted to display "1" for every .0033 volts of input. At "0" psi the reading is "0" volts. At 120 psi, the reading is 3.96 volts, and the digital reading becomes 120.

The key feature of these machines is their flexibility. The company purchasing the laminating equipment decides the ideal laminating pressures for each job. Once set, the operator merely has to "dial in" the clutch, brake, and roller pressures against the norm for perfect work.