

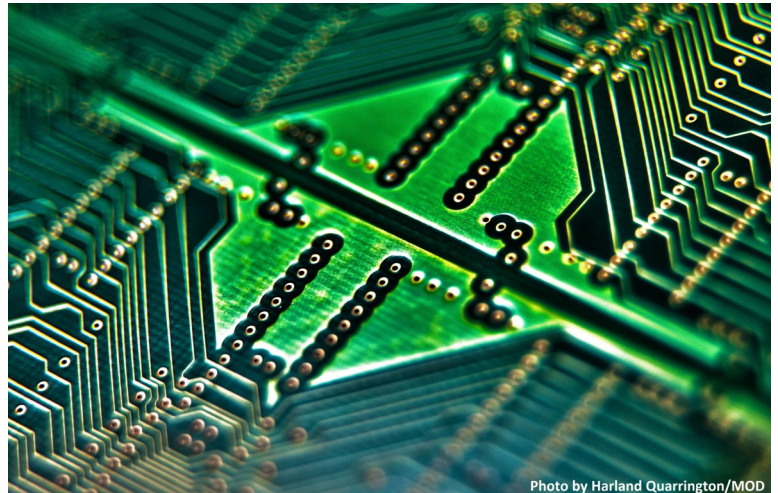
Acid washing for printed circuit boards

APPLICATION C204

Printed circuit boards (PCBs) are used in electronic products from the simplest to the most advanced. There are many steps required to manufacture a printed circuit board (PCB) but one of the most critical is to use a spray to remove undesired copper from the board. As substrate materials have become thinner and more flexible, spray pressure and speed of the conveyor on the PCB manufacturing machines can have a very dramatic effect on the quality of the printed circuit board.

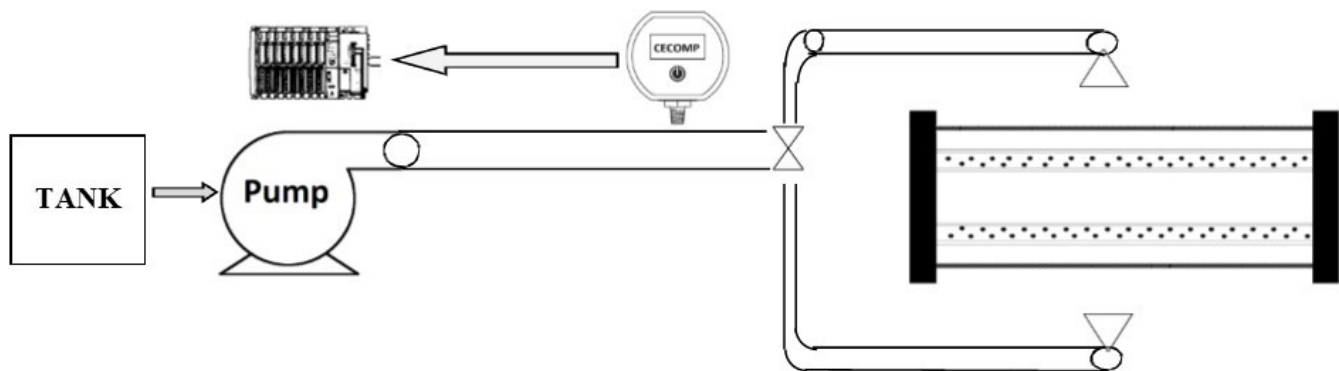
Type of Company: [Manufacturer, PCBs](#)

Location: [Pennsylvania](#)



The Engineering Issue

- The engineer has a requirement to provide an accurate visual indication of the spray pressure and an analog output signal to the machine PLC.



The engineer used a Cecompe F4L NEMA 4X digital pressure gauge. This ultra-rugged gauge gives an accurate visual readout of the pressure, with a 4-20 mA output being sent to the PLC.

Problem. Solved.