

# Monitor vacuum on kiln

## APPLICATION C154

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

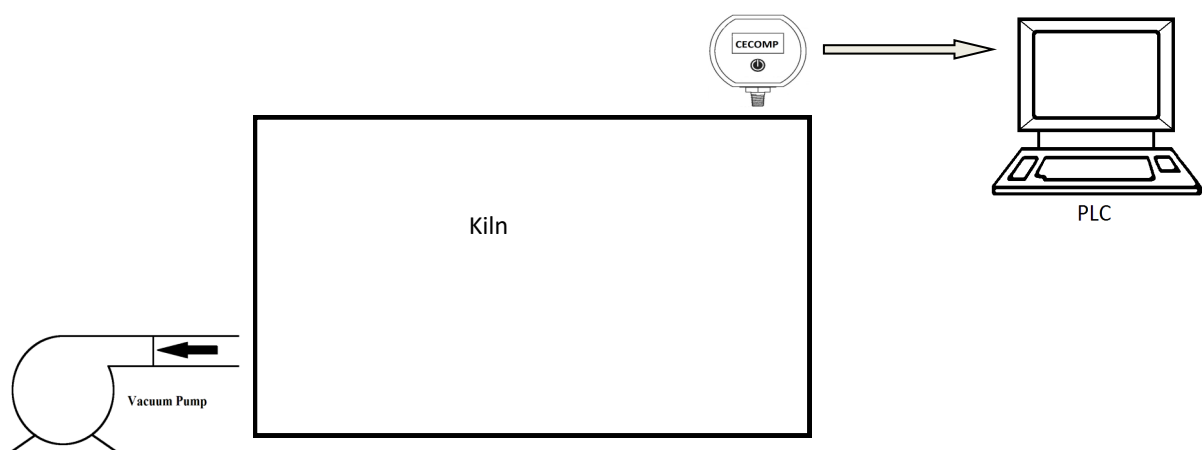
Location: [Ohio](#)

Wood drying reduces the moisture content of wood before its use. When the drying is done in a kiln, the product is known as kiln-dried timber or lumber, whereas air drying is the more traditional method. Some companies use a custom retort process which reduces the atmospheric pressure to the kiln in order to decrease the drying time, typically by a factor of 4. This process also reduces typical kiln drying defects which increases the yield substantially.



### The Engineering Issue

- The engineer requires a digital gauge to accurately monitor the reduced atmospheric pressure of the kiln.
- A signal from the gauge must also be sent to the PLC to control the vacuum motors.



The engineer used a Cecomp DPG1000L absolute pressure gauge which gave both an accurate visual readout of the atmospheric pressure and a 4-20 mA signal to the PLC for vacuum control.

**Problem. Solved.**