

Monitoring vacuum on pump motors

APPLICATION C124

Type of Company: [Shallow Water Dredging](#)

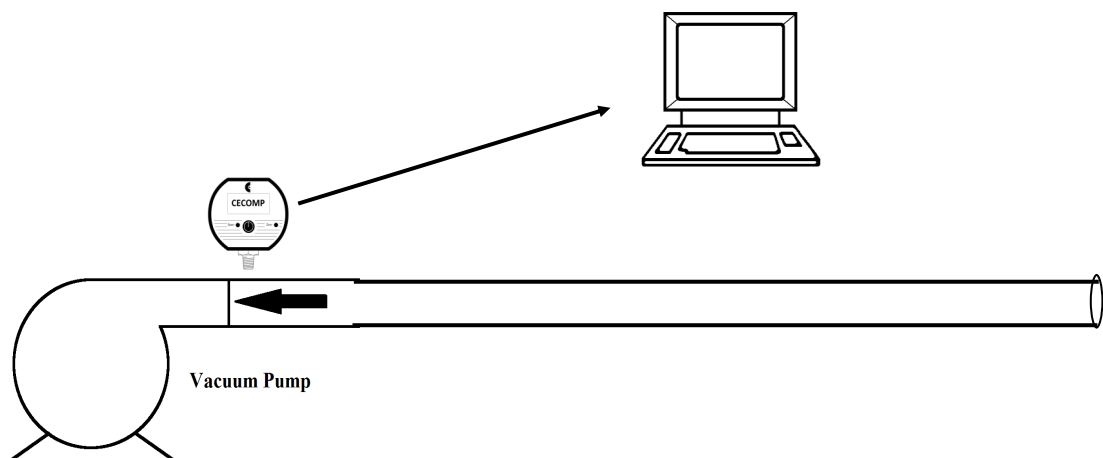
Location: [Virginia](#)

Eco-friendly shallow water dredging uses a “drag head” along the bottom and has suction pumps on both the port and starboard side. Excess water in the dredged materials is spilled off as the heavier solids (mainly sand) is filtered out and settles to the bottom of the hopper. When the hopper is filled with solid material (slurry), the dredger stops dredging and goes to a dump site and empties its hopper.



The Engineering Issue

- The engineer has to monitor the vacuum on the suction pumps so that proper suction is maintained.



The engineer used a Cecomp DPG1000L. The DPG1000L gave him both a visual indication and a 4-20 mA signal to send to an onboard PLC.

Problem. Solved.