

# Application Note

## CA700

**Sales Person:**

EJ Inigo - RM Controls

**Customer:**

Rogers Corporation

**Requirements:**

Customer manufactures power electronics and printed circuit materials and as a result they have several clean rooms. Typically, clean rooms have a slight positive pressure inside them to keep the manufacturing process free of dust, airborne microbes, aerosol particles and chemical vapors. One of the primary instruments used in monitoring the pressure within the clean room are magnehelic gauges, these instruments are used to monitor blower pressure or air velocity. Magnehelic gauges can range from 0-150" of water and in this application they are using a 0-1" of water gauge.

**Solution:**

Rogers Corporation's initial interest was in a primary standard to calibrate their magnehelic gauges but the potential investment of \$30k was a prohibitive factor and the plan was to have a 3rd party calibration company continue to calibrate their gauges. This is an expensive proposition and one that they wanted to keep in house to reduce cost. Yokogawa's CA700 was presented as a potential solution to calibrate their gauges due to its superior accuracy and cost compared to the primary standard. RM Controls provided an on-site demonstration of the product and the customer tested it on one of their gauges with excellent results. As a result, the customer made a purchase of this unit and has been utilizing it for this application for the past year without any issues.

**Potential:**

Any manufacture that utilizes clean rooms is a potential customer for this product, there isn't another portable calibrator on the market that has the accuracy to calibrate very low pressure magnehelic gauges like the CA700 can. Magnehelic gauges are also used in hospitals, semi-conductor manufacturing, room and building monitoring systems and filter monitoring.