Aisala has deep roots in weather measurements. Some 20 years ago, we realized that there were similar measurement needs in many other areas, particularly in industry. In one form or another, humidity is a key parameter in hundreds of applications that have nothing to do with the weather. Similarly, barometric pressure and carbon dioxide measurements also have many industrial applications.

For weather applications, we supply systems that match specific customer needs, although this doesn’t exclude the delivery of single instruments. For industrial applications, we focus on measurement transmitters. Based on our comprehensive knowhow in wide-ranging application areas, we can help our customers find the right measurement solution. System integration, however, is outside our scope of expertise. Instead, we work closely with the end users and system integrators. We are realists in this regard. As with many aspects of industrial systems, the job of integration is for the application specialists.

Structural humidity measurements and the measurement of humidity in oil are two interesting new applications of our equipment. Faulty building practices and insufficient ventilation or heating can lead to problems with structural humidity. Excessive humidity in unseen parts of a building can lead to mold growth and, in turn, health hazards, allergies and structural damage. As the price of energy has risen, more thermal insulation is being used in regions where heating is necessary. Unfortunately, the risk of mold growth is often high in these structures. We have studied this problem at Vaisala, and now supply diagnostic measurement devices to builders and building contractors.

Water in oil is an undesirable additive. When oil is used as a lubricant, any added water weakens its lubricating properties. With constant humidity monitoring, the problem can be identified in time, and avoidable damage and downtime can be prevented.

Calibration and traceability to references are critical factors in measurement reliability. To ensure continuous, high-quality operation, measurement instruments require occasional calibration. This applies even to instruments with excellent stability. In response to these needs, Vaisala also supplies calibration services and instruments.

By providing excellent measurement solutions, we help ensure the reliability of our customers’ processes—and their success.

Pekka Ketonen
President and CEO