

## Vaisala instruments for the automotive industry



- Vaisala offers over 50 years of experience in industrial humidity measurements
- Interchangeable probes and host transmitter platform
- ISO/IEC 17025 accredited calibrations available
- Options/features to meet a wide variety of automotive applications

### Dynamometer rooms

Accurate and reliable monitoring of room conditions is necessary for stress testing of systems and components to evaluate performance, durability and fatigue. Vaisala Humidity Transmitters offer:

- Indigo RH/T probes measurement from -70°C to +180°C environments
- $\pm 1\%$  RH accuracy and traceable certificate included or optional 17025 accredited calibration
- Patented warmed probe technology for condensation prevention
- Optional graphical display with measurement history



*Vaisala Indigo500 series transmitters and Indigo-compatible humidity and temperature HMP series probes for excellent performance. Single or Dual probe options available.*

### Engine test cells

High reliability and continuous performance are critical in test cell instrumentation. The Vaisala BAROCAP® barometers and HUMICAP® humidity instruments set the standard for reliable test cell instrumentation. Vaisala Indigo Series of Probes and Transmitters offer:

- Three-in-one measurements: barometric pressure, humidity, and temperature
- Fast response times and probes that are easy to service
- $\pm 1\%$  RH accuracy and traceable certificate included or optional 17025 accredited calibration



*Vaisala BAROCAP® combined pressure, humidity and temperature transmitter Indigo520 & HMP7.*

## Compressed air dew point

In compressed air, moisture means trouble: water causes corrosion and can freeze and block pipes or cause malfunctions in pneumatic instruments. Vaisala Dewpoint Instruments provide:

- Dew point measurement from -80...+80 °C (-94...+176 °F)
- DRYCAP® sensor technology to withstand condensation and quick response time.
- Patented auto-calibration for improved performance and superior long-term stability
- Pressure ranges up to 725 psia (50 bara)



*Vaisala DRYCAP® Dew Point probes combined with Indigo host transmitters*

## Paint booths

Modern automotive paints are sensitive to environmental conditions during application. Humidity control in the air house and paint booth assures an efficient process and a high-quality finish.

Vaisala Humidity Transmitters provide:

- Accurate humidity measurements with extremely low long-term drift
- Vaisala HMT370EX - Intrinsically safe for use in hazardous locations
- FM, CSA, and other global approvals
- Traceable calibration included or optional 17025 accredited calibration



*Vaisala HUMICAP® Humidity and Temperature Transmitter Series HMT370EX*

## Metrology

Regular calibration is essential to ensure the best accuracy. Critical instruments can be calibrated in place using portable reference standards, or sent to Vaisala for ISO certified calibration or 17025 accredited calibration. Vaisala offers the following portable standard:

- Indigo80 handheld indicator used for spot-checking, data logging, process monitoring, configuring, troubleshooting, calibrating and adjusting. Works with humidity and temperature, dew point, and carbon dioxide probes.

Indigo80 offers a graphical display, selectable parameters, rechargeable batteries, two cable ports for connecting up to two swappable Indigo compatible probes and data logging with over 5 million data points. The device also has a USB-C port for charging or exporting the data using the free Vaisala Insight software.



*Vaisala Indigo80 indicator combined with DMP80 handheld probe and DSC74 sample cell.*

**VAISALA**

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