

Changing the way you think about sensors...



FOR OVER 25 YEARS, Building Automation Products Inc. (BAPI) has been developing quality sensor solutions for the HVAC/R industry. Visit booth 690 for a sampling of sensible sensor solutions and see our latest innovations including the now available Blü-Test suite of wireless test instruments.



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Introducing the next generation of test instruments. The power of logging with Blü-Test from BAPI.

With the cost of HVAC systems regularly exceeding six or seven figures, it is smart business to invest in accurate testing and troubleshooting instruments. Building Automation Products, Inc. (BAPI) recently released the Blü-Test suite of wireless test instruments, the next generation tool for commissioning, validation and troubleshooting. Immediate results are available on each probe's onboard display, or sent to the Blü-Test app for review or data-logging. Commissioning agents, facility managers, HVAC technicians and engineers will immediately see the benefits. Gone are the cords and meters, clipboards and handwritten notes, replaced with a handheld probe and a user-friendly app. Data logs can be shared through email for further analysis, or for ongoing monitoring and maintenance to identify HVAC issues before they escalate out of control.

The Blü-Test suite currently includes six test instruments for temperature, relative humidity or differential pressure. The probes communicate via Bluetooth LE to an Android or iOS smart phone or tablet. The Blü-Test app., available on Google Play™ or the App Store®, not only logs the data but can also present it as graphical trends for a more complete view of the system over time. Different facilities and locations can all be identified and even attach a photo which is helpful in unfamiliar areas.

Each probe stores up to 300 hours of continuous logging in its internal memory, so you can leave the probe at a location to measure for longer periods. The probe will automatically upload the data to the app. as soon as communication is re-established with the smart device.

Measuring with accuracy. Besides eliminating cords and meters and adding data logging, a key objective for the BAPI team was achieving high accuracy so that the instruments could be used across the entire spectrum of HVAC testing. BAPI was able to accomplish that goal by using its own state-of-the-art testing chambers and precision instruments to calibrate the Blü-Test probes to the required accuracy. Each probe comes with a National Institute of Standards and Technology (NIST) traceable certificate of calibration stating the specific accuracy for that device.

“Using NIST-traceable test instruments is important because it allows us to calibrate our products with incredible precision, making them much more valuable for users in the field,” said BAPI Engineering Manager Justin Tracey. “Ultimately we strive to make high quality products that help create a more comfortable environment while saving our customers money. Making test instruments and sensors with high accuracy are ways that we can help do that.”

Although the specific accuracy for each probe is stated on its certificate, all “temperature only” probes have an accuracy that is better than $\pm 0.18^\circ\text{F}$ from -13 to 167°F or $\pm 0.1^\circ\text{C}$ from -25 to 75°C . With the combination temperature and relative humidity units, each probe has a temperature accuracy better than $\pm 0.36^\circ\text{F}$ at 77°F ($\pm 0.2^\circ\text{C}$ at 25°C) and a relative humidity accuracy better than $\pm 1\% \text{RH}$ at 77°F (25°C) from 10 to 85%RH.

As for the differential pressure units, the low range units have an accuracy better than $\pm 0.25\%$ of the full scale span from -1 to $1'' \text{WC}$ (-250 to $+250 \text{ Pa}$) at 77°F (25°C). The standard range units also have an accuracy better than $\pm 0.25\%$ across their full scale span from -5 to $5'' \text{WC}$ ($-1,250$ to $1,250 \text{ Pa}$) at 77°F (25°C).

To obtain more information about the Blü-Test suite of wireless test instruments or any BAPI sensor solutions, please contact BAPI at sales@bapihvac.com or 1+ 608-735-4800 [www.bapihvac.com].



The Blü-Test suite is currently comprised of six hand-held probes and each comes with NIST traceable certificate of calibration.

The versatile Blü-Test app., available on the App Store® or Google Play™ contains various screens to view live data or manage data logs.

