# The Blü-Test

## Bluetooth<sup>®</sup> Wireless Testing Probes

## Operations Manual & User Guide for Probe and App



Communicates via Bluetooth with your Android<sup>™</sup> or iOS Smart Phone or Tablet Temperature, Humidity and Differential Pressure Sensors Rechargeable Lithium-Ion Battery via Micro-USB Connect Up to 6 Sensors at a Time LED on the Probe Displays Readings



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#### Sect. 1: Overview and Identification

Blü-Test is a suite of handheld testing probes that communicate via Bluetooth 4.2 up to 30 feet to the user's enabled Android or iOS Smart Phone or Tablet. Each probe comes with a National Institute of Standards and Technology (NIST) traceable certificate of calibration.

Blü-Test is very simple to use. Start the app on your smart phone or tablet and select the probe to view live data from that device. Multiple points can be logged, graphed or emailed. The logs are saved on the probe and app and can be emailed for easy insertion into commissioning reports. Measurements are also shown on the handheld probe's local display for convenience.

Blü-Test can take readings and store the data in its internal memory when the smart phone or tablet is out of range. The data is then uploaded to the App when the phone or tablet is back in range.

Fig. 1: Blü-Test Suite of Sensors (Units on the right are shown with the included duct cone for hands-free measuring in ducts.)





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#### Sect. 2: Loading App and Connecting to a Probe

### <u>Blü-Test App (Phone or Tablet Display):</u>

The Blü-Test App must be loaded on your Android or iOS Smart Phone or Tablet to communicate with the probe. The App requires a minimum operating system of Android OS 4.4 (KitKat) or higher and Apple iOS 9 or higher.

#### Loading the Blü-Test App:

- 1. Access the Google Play Store or Apple's App Store on your internet enabled phone or tablet.
- 2. Search for "Blu-Test" (Do not use the "ü" symbol in your search).
- 3. Tap the Blü-Test Application icon (Fig. 2) and select "Install" to download to your device.

#### Connecting to a Probe:

Turn on the Probe by pressing and holding the button and then open the Blü-Test App. Probe(s) will connect automatically and be shown on the Devices Screen (center menu icon). If Bluetooth on your device is turned off, the app will ask if you want to turn it on. The units that show Bluetooth or connection signal strength via the white icons on the left are currently active. Fig. 3 is the devices screen with three connected or active probes. Pressing ">More" will display the total number of inactive probes which the App has communicated with in the past.



**Fig. 2:** Blü-Test Application Icon (above) and Initial Screen (right)



**Fig. 3:** Devices Screen showing 3 Blü-Test probes.

#### Sect. 3: Probe Information

	Button Press	Functionality			
	Press and hold	Press and hold for 2 seconds to turn unit off.			
	One button press	Turns unit on if it is off; wakes the unit if it is asleep. If the unit is on and awake, it cycles between measurement units - (°C/°F on temp units) (%RH/°C/°F on temp/humidity units), (inches WC/Pascals for pressure units)			
	Two button presses	Toggle logging of readings on/off. The word "LOG" is shown on the probe display next to the battery icon when the probe is logging data.			
	Three button presses	Autozero for pressure units only			
	Additional Info		-		
	Battery Indicator	Level of charge. Up to 10 days of continuous logging on a single charge.			Ш
	Sleep Mode	. The screen will go blank after two minutes of no activity.			
	Sensing Detail	Measurements are taken and updated to the App as selected in the App.			
	Auto-Off	After 15 minutes of no activity (no logging, no active app present).	5.92		

#### **Battery Charging**

The probe has a rechargable battery and requires periodic charging with the supplied USB cable that plugs into the charging port on the back of the unit. The battery icon on the display will indicate that the unit is charging.

#### Contains FCC ID: 2AA9B04

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Fig. 5: Closeup of the Blü-Test Probe display



Fig. 4:

Blü-Test Probes





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#### Section 4: Devices Screen Overview - Blü-Test Application

Navigate to the Devices screen by tapping on the Devices Icon (center icon) in the main menu at the bottom. This screen shows all probes which the App is communicating with. The Bluetooth or signal strength icon will be white for probes that are currently communicating with the App. You can touch ">More" to show all probes that have communicated with the smart device. You can then touch "<Less" to collapse the list to currently communicating devices. For best performance, monitor six or less Blü-Test probes at one time with the App.

#### **Name a Probe**

Tap on the gear icon to the right of a probe bar (Fig. 6) to open the Probe Settings pop-up window (Fig. 7). Add the desired name in the Probe name field. Press OK to save the new name.

#### **Identify a Probe**

In the same Probe Settings pop-up window as described above, pressing the "Identify" button will cause the probe name to be shown for a short period on the probe display. This lets you identify a specific probe when communicating with multiple probes. ⊁ 🛤 🛜 👖 77% 💼 6:52 AM

#### View Graphs of Logs and Live Data for a Probe

Tap on a probe bar to expand that bar and view the historical log files of that probe as well as the live data option (Fig. 8). Tap on a log bar or live data and a check mark will appear in the box. Tap on the Graph Icon (2nd from right in the main menu) to open the Graphs screen (Fig. 9) which shows historical graphs of all logs with check marks. Multiple logs can be selected and viewed at once; however, the best practice is to choose log files that are chronologically close to each other. Large breaks in time between logs makes the graph difficult to view.

#### **Creating Log Files**



There are two methods for creating and storing a log file. The first method is to store live data as it is being graphed, and the second is to initiate a log via the probe.

#### **Creating a Log File from a Graph**

Select the live data for the probe that you would like to log. Go to the Graphs screen to view the

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Fig. 6: Devices screen showing 3 Blü-Test probes.

Fig. 7: Probe Settings pop-up window.

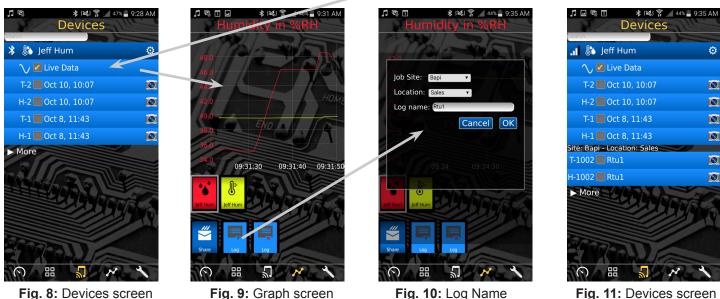


Fig. 8: Devices screen with live data selected.

Fig. 9: Graph screen showing the live data.

screen.

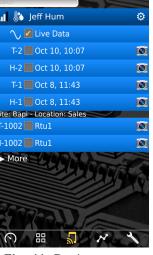


Fig. 11: Devices screen with the new logs.



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#### Section 4: Devices Screen Overview continued...

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live data, then press the "Create Log" button to open the Log Name screen (Fig. 10) where you can give the log a name and associate it with a job site and location.

#### **Creating a Log File via the Probe**

Turn on the probe to use for logging. Wait a minute for the reading to stabilize. Double click the button on the probe to initiate logging. The "LOG" icon will be illuminated on the probe display (Fig. 12). When the data collection is complete, double click the button on the probe to turn off logging. The "LOG" icon is no longer illuminated. When the App makes contact with the probe, the log file will be downloaded from the probe to the App on the smartphone or tablet.



Fig. 12: Probe display showing the log function on

Measurements are taken every second but only every 10th measurement is included in the log. The probe can hold up to 8 months of continuous logging. It keeps a rolling set of 32 logs. The oldest logs are removed from the probe as

additional logs are added. Logs fall off of the probe but remain stored in the App unless erased.

#### Name a Data Log or Erase a Data Log

A long press (~1 sec) and release on a log bar will open the "Name Log or Erase Log" pop-up window (Fig. 14). You can enter a custom name for the log in the Name field or erase the log with the radio button. Erasing the log only removes it from the App, not the probe. Press OK when done.

#### **Erase All Log Data**

A long press (~1 sec) and release on the probe bar (rather than on one of the log bars) opens the "Erase All Logs" pop-up window



Fig. 13: Devices screen with logs showing for one probe.

Fig. 14: "Name Log and Erase Log" pop-up window.

Fig. 15: "Erase All Logs" pop-up window.

(Fig. 15). Pressing OK will erase all logs from the probe and from the App. (Note: This is different than the Erase a Data Log function described above which only removes the log from the App, not from the probe.)

#### Add a Photo to a Log or View a Log Photo



Tap on the camera icon on the log file to open the "Add a Photo" window. Tap "Take Photo", and once the photo has been taken, tap "Use Photo" to add the photo to that log. Tap on the camera icon on a log file to view the photo for that log.

#### **Search Option**

You can also use the search area on the top of the screen to search all logs by location, site and name to easily find specific log files.



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#### Section 5: Graph Screen Overview - Blü-Test Application

Tap on the Graph Icon to open the Graphs screen and view the historical graphs of all logs which were given check marks in the Devices screen. Multiple

logs can be selected and viewed at once.



#### **Create a Log**

If you are displaying live data, you can save this data as a log file. Press the "Create a Log" button to open a popup menu where you can save the data and select an applicable site and location (Fig. 10).

#### **Erase Live Data**

Press the "Erase a Log" button to clear the live data that is being displayed on the graph and begin logging live data again. Each graphed line is represented by a same-colored button below. One press on the button will switch the reading from imperial to metric (or vice versa), if applicable. A second press will remove the reading from the graph. Pressing the unselected button again will bring the line back on the graph.

#### Share a Log

Press the "Share a Log" button to share the log data in CSV format by the method of your choice. The data from all the logs that are currently selected will be included in the CSV file. Fig. 17 shows the CSV file of the humidity and temp logs shown in Fig. 16 as it comes from the App.



		_	-	
_	А	В	С	
1	08-10-18 11:43			
2				
3	Device	en-a2794c244c36	en-a2794c244c36	
4	Latitude			
5	Longitude			
6	Site			
7	Location			
8				
9	Sample time	1:Temperature in °F	2:Humidity in %RH	
10	08-10-18 16:43	72.6	52.1	
11	08-10-18 16:44	72.8	52	
12	08-10-18 16:45	72.9	51.9	
13	08-10-18 16:46	72.8	51.9	
14	08-10-18 16:47	72.9	52.1	
15	08-10-18 16:48	72.9	52.1	
16	08-10-18 16:49	72.9	52.3	
17	08-10-18 16:50	72.9	52.2	
18	08-10-18 16:51	73	52.1	
19	08-10-18 16:52	73	51.9	
20	08-10-18 16:53	73.1	52	
21	08-10-18 16:54	73.1	52	
22	08-10-18 16:55	73.3	51.8	
23	08-10-18 16:56	73.3	51.6	
24	08-10-18 16:57	73.2	51.4	
25	08-10-18 16:58	73.1	51.4	
26	08-10-18 16:59	73.1	51.3	
27	08-10-18 17:00	73	51.2	
28	08-10-18 17:01	72.9	51.2	
29	08-10-18 17:02	72.8	51.2	

Fig. 16: Graphs screen showing two logs. The red temp log is selected as the primary log so the scale values on the axes only apply to that graph.

Fig. 17: CSV file opened in Microsoft Excel showing the log values from the humidity and temperature Graph screen in Fig. 16.



#### Section 6: Manage Site/Location in the Tools Menu - Blü-Test Application

The Blü-Test App uses a two-tiered approach to managing site and locations. Sites are the main facility or campus, and Locations are the specific rooms or areas within that facility. Sites and Locations can be entered manually or by importing a file.

#### **Manual Entry of Site/Location**

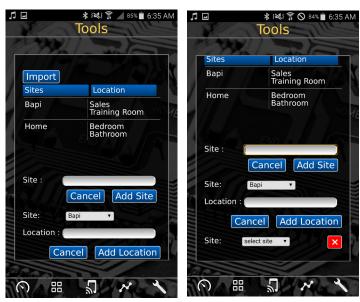
Open the Tools menu by tapping the Tools icon on the right side of the main menu (Fig. 27). Select the "Add Site/Location" bar from the list of bars. This opens a screen displaying all the current sites and locations stored in the App (Fig 18). To add a new site, enter the name in the Site field, and then press "Add Site"

To add a location to an exisiting site, select that site in the pull-down menu then enter the name in the Location field and press "Add Location".

To delete a site or location, scroll down to show the Site pull-down menu with the red X (Fig. 19). Select the site and/or location to delete and press the red X. That site and/or location will no longer be available.

#### **Import of File with Site/Location**

To import a Site/Location, create a CSV file similar to the approach in Fig 20, and then upload this file to your smart phone or tablet. Press the Import button in the "Add Site/Location" menu to import the Site and Location data to your App.



#### Fig. 18: Add Site/Location screen. Fig. 19: Delete Site screen

	А	В	
1	Site	Location	
2	Site 1	Location1, Location2, Location3	
3	BAPI	aord Room, West Conference Room, South Training Room, Sales, Manufacturing	
4	Home	Kitchen, Bedroom, Bathroom, Living Room	
5	Gas Station	Counter, Sales	

Fig. 20: CSV Site/Location file that can be imported.



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#### Section 7: Dashboard Screen Overview - Blü-Test Application

Open the Dashboard Screen by tapping on the Dashboard Icon (2nd from left) to view the live readings of all the Blü-Test probes that are currently communicating with the App (Fig. 21). For best performance, no more than six probes should be monitored by the App at one time.

Tap on any of the probes to view the live data from that probe on the Gauge screen (Fig. 22).

For probes with temperature and humidity, the small and large gauges can switch places by tapping on the smaller dial. You can also cycle through the available units of measurement by tapping on the smaller inset circle within a gauge (see next section for more info).



Fig. 21: Dashboard screen showing live data for 3 active Blü-Test probes.

Fig. 22: Gauge screen showning the live data for a temp and humidity probe.



#### Section 8: Gauge Screen Overview - Blü-Test Application

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Tap on any of the probes from the Dashboard screen to view the live data from that probe on the Gauge screen. For probes with temperature and humidity, the small and large dials can switch places by tapping on the smaller dial. You can also cycle through the available units of measurement by tapping on the smaller inset circle within a dial.



Fig. 23: Gauge screen with the %RH as the large dial and the temperature (°F) as the small dial.

50 °F 70.4 °C 100

Fig. 24: Gauge screen with the temperature (°F) as the large dial and the %RH as the small dial.



Fig. 25: Gauge screen with the temperature (°C) as the large dial and the %RH as the small dial.



Fig. 26: Gauge screen with differential pressure being displayed in inches WC. Click Pa to switch to Pascals



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Tools

Temperature Accuracy Calculator Temperature Finder mA/V

Output Finder mA/V

Temperature to Resistance

Resistance to Temperature

Contact BAPI (608) 735-4800

Fig. 27: Tools Screen

User Account / Settings

www.bapihvac.com

Add Site /Location

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#### Section 9: Tools Screen Overview - Blü-Test Application

The Tools screen includes a number of helpful tools for checking the accuracy and operation of sensors. These include:

#### Temperature Transmitter Accuracy Calculator

This tool is used to determine the accuracy of a BAPI T1K 4 to 20 mA Platinum RTD transmitter for a given temperataure range. Just enter the low and high temperature of the range of the transmitter, the unit of measure and the type of RTD sensor: Class A (A), Class B (B), or Averaging (AVG) sensor type. The tool will then provide the transmitter specifications, including the accuracy at 8 and 16 mA, accuracy at 25, 50 and 75% of span, linearity and power output shift.

### Temperature Finder mA/V

This tool will tell you the temperature for a given output value if you enter the temperature transmitter's temperature range and output range.

Ter	np A	ccur	acy		
Select an RTD: A, B, or AVG for averaging.					
A	ОВ		AVG		
Lo ~40	w Temp	High Temp 105		°C	
	END	. N			
Transmitter Spec. (± Degrees)	°(	2		°F	
Accuracy at 8 & 16 mA					
Linearity					
Power Output Shift					
RTD Accuracy (± Degrees)	°(	2		°F	
25% of Span 25C					
50% of Span 50C					
<b>N</b> #	5	Ky.	ж	4	

Fig. 28: Temp Accuracy Tool

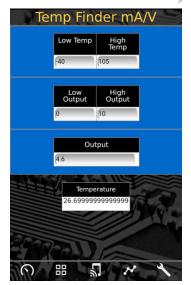


Fig. 29: Temp Finder Tool

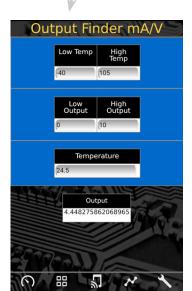


Fig. 30: Output Finder Tool

#### Output Finder mA/V

This tool will tell you the output of the sensor for a given temperature if you enter the temperature transmitter's temperature range and output range.





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#### Section 9: Tools Screen Overview - Blü-Test Application continued....

The Tools screen includes a number of helpful tools for converting temp to resistance and resistance to temp for various sensors. These include:

#### Temperature to Resistance

This tool will calculate the resistance of a BAPI Thermistor or RTD sensor when you enter a temperature. The most common Thermistor and RTDs are included in the tool.





Fig. 31: Tools Screen

#### Resistance to Temperature

This tool will calculate the temperature when you enter the resistance of the BAPI Thermistor or RTD. The most common Thermistor and RTDs are included in the tool. The tool provides the nominal temperature plus the high and low values that would still be within the specified accuracy of the sensor.

	Resista		o Tem	p 🖌	
5.3K Thermistor					
	3.3K Thern				
	4K Thermi				
	10K-4 Ther				
	10K Therm				
	1K (385) R				
	1K (375) R				
	100Ω (385				
	100Ω (375	) RTD			
		Resistance			
	(106	o/			
		°C	°F		
	Nominal	17.6	63.7	1.11	
a fai	Low	17.3	63.1		
	High	18.0	64.4		
0			N	4	
		and a			
Fig. 33: Resistance to Temp					
•					
		Tool			



#### Settings

This tool tells you which version of the Blü-Test App is currently running. It also allows you to check for and download App updates by tapping on the blue "Check for Device Updates" button.

If a firmware update is available for a probe, a message on this screen will state that the probe needs updating and display a blue "Update Firmware" button. Pressing the button updates the firmware on the probe.

Fig. 34: Settings Tool

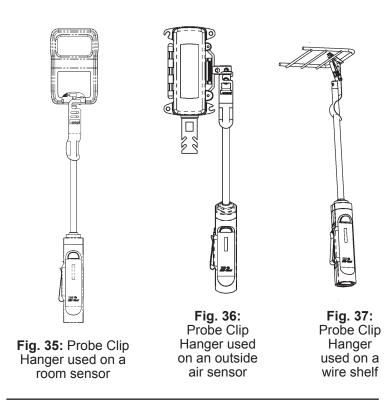


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#### Section 10: Best Measurement Practices

- Room Sensor measurement is done by holding the Blü-Test probe directly under the sensor enclosure for 3 minutes or until the reading stabilizes. Body heat or breathing on the sensor is a major source of faulty readings, so holding the Blü-Test plastic at the button end and standing away from the sensor is the best way to ensure a good measurement. The Probe Clip Hanger accessory (BA/PCH-1) makes this easier by holding the probe for you (Fig. 35).
- Duct sensor measurement is done by drilling a 5/8" hole in the duct near the duct sensor to be tested. Insert the Blü-Test probe in the hole so the tip is as close as possible to the duct sensor under test. Hold the Blü-Test probe in place for 2 minutes or until the reading stabilizes. When finished, remove the probe and cover the test hole with duct tape.
- Duct averaging sensor verification is more difficult. Use the probe clip hanger to clip the probe directly to the averaging sensor at a recommended 10 or more locations along its length. Leave the Blü-Test probe in place for 2 minutes or until the reading stabilizes.

Outside air sensor measurement requires that



the Blü-Test probe be placed next to the outside air sensor. This may require a ladder or extension pole. Hold the Blü-Test probe in place for 3 minutes or until the reading stabilizes. The Probe Clip Hanger makes this easier by holding the probe for you (Fig. 36).

- Walk-in freezer/cooler measurements require that the Blü-Test probe be placed in or around the product racks and not near the door. Do not let the probe tip touch the rack. The probe will require more time to stabilize due to the larger differential between room temperature and freezer/cooler temperature. Keep the probe in place for 15 to 20 minutes or until the reading stabilizes. The Probe Clip Hanger makes this easier by holding the probe for you (Fig. 37).
- Immersion dry thermowell measurement can be done as long as the thermowell diameter is big enough. Remove the
  immersion sensor to be tested and place the Blü-Test Probe into the thermowell. Hold the probe in place for 2
  minutes or until the reading stabilizes.
- The piercing temperature probe is designed to be used with "Pete's plugs". It is also designed to be used when piercing a medium is needed such as in insulation or soil.

#### Section 11: Cleaning

#### **TEMPERATURE ONLY UNITS:**

The Blü-Test temperature only units can be cleaned with a damp cloth with an alcohol-based disinfectant or mild soap. Dry with a towel or warm blower after cleaning. The units should not be submerged or placed in a dishwasher.

#### TEMPERATURE/HUMIDITY UNITS AND DIFFERENTIAL PRESSURE UNITS:

The Blü-Test temperature/humidity and differential pressure units can be cleaned with a damp cloth with an alcoholbased disinfectant or mild soap, but DO NOT get the tip of the temp/humidity probe wet in any way, and do not let liquid enter the ports of the differential pressure unit. Dry with a towel or warm blower after cleaning. The Blü-Test units should not be submerged or placed in a dishwasher. If liquid does infiltrate the probe tip of the temp/humidity unit, remove liquid immediately with a paper towel or cotton swab and dry with a warm blower. If grease infiltrates the probe, the unit may be damaged. Send it back to BAPI for service.



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#### Section 12: Storage

Handle the unit with care because dropping or high vibrations could cause the battery to shake loose or the probe support to crack. The Blü-Test unit should be stored in a dry location with ambient temperatures between: <1 month, -20 to 50°C (-4 to 122°F) • 1 to 3 months, -20 to 40°C (-4 to 104°F) • 3 months to 1 yr, -20 to 20°C (-4 to 68°F)

#### Section 13: Diagnostics

#### Possible Problem: The probe will not link-up with the Bluetooth display device.

- 1. Be sure the display device has the Blü-Test App loaded and is Android OS 4.4 (KitKat) or Apple iOS 9 or higher.
- 2. Be sure the display device and the probe are close enough to each other (<30' open air) and that both are turned on.
- 3. Cycle power to both the probe and the display device.
- 4. Verify that Bluetooth communication is turned on in your device.

#### Possible Problem: The temperature or humidity is not accurate.

- 1. Make sure the Blü-Test probe tip is near to the reference or field device.
- 2. Make sure that independent drafts are not affecting the reference or the Blü-Test probe.
- 3. Allow the Blü-Test probe to acclimate to the air before registering the reading. This may take between 2 to 5 minutes.

#### Section 14: Recalibration

The Blü-Test unit is factory calibrated and comes with an NIST traceable certificate. The certificate is accessible via the probe information screen. You can access this area in the Devices screen, and then click the gear icon next to the probe that you would like to review. The Blü-test should be re-calibrated once every year as a standard practice. The unit cannot be field calibrated and must be calibrated at the factory, which includes a thorough inspection, cleaning, calibration and an NIST traceable re-certification.

#### Section 15: Specifications

#### **Blü-Test Probe Specifications**

#### Power:

3.7V, 2,600 mAh Rechargeable Battery (non-serviceable) (charger cable included)

#### **Charging Specifications:**

Standard USB Charger, 4.25 to 5.5V, Less than 1.5A

#### Probe Environmental Range:

Temperature Probe... -40 to 185°F (-40 to 85°C) Base Unit...... -22 to 158°F (-30 to 70°C) %RH Probe....... 5 to 95% Non-condensing Diff. Pressure Probe . -4 to 158°F (-20 to 70°C)

#### **Probe Measurement Range:**

Temperature: ......-40 to 185°F (-40 to 85°C) %RH ......20 to 80% Non-condensing

#### **Differential Pressure Probe**

Low Range: .....-1 to +1" WC (+250 to -250 Pa) (identified by black tubing)

Standard Range: .....-5 to +5" WC (+1,250 to -1,250 Pa) (identified by red tubing)

#### **Typical Accuracy:**

#### **Differential Pressure Probe**

Low Range: ±0.25% of FS Span,	
-1 to +1" WC (+250 to -250 Pa	)
Standard Range: ±0.25% of FS Span,	
-5 to +5" WC (+1,250 to -1,250 F	'a)

#### **Blü-Test Probe Specifications continued...**

Calibrated Accuracy: See the provided NIST certificate Communication: Bluetooth LE Class 2 v4.2, Up to 30 feet Data Transfer: Updates to display every 10 sec Security: AES-128 Agency: RoHS, NIST Traceable Cert. FCC ID: Contains FCC ID 2AA9B04

#### **Blü-Test App Specifications**

**Application Program:** \*Android OS 4.4 (KitKat) or Apple iOS 9 or higher required

**Bluetooth:** For best experience, use BlueTooth version 4.1 or higher

**Display:** Display on probe or device

Measured Data:.Temp. (°F/°C), Temp. & %RH or		
Differential Pressure (WC or Pascals)		
Time Stamp: Date and 24 hour time		
Location: Uses location of device		
Save: Saves current data time & location		

Save: ...... Saves current data, time & location

Log: ...... Show trend data on screen Email: ..... Sends data log to any email address

Note: A user supplied Android or iOS device is required

to access logged data.

Specifications subject to change without notice.



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