User Interface Specification

VDT985

(Project V1601)

Vick's Bluetooth Digital Stick Thermometer

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Take Temp 🔒

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Export

	Tak	e Temp ₍		Export	
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More	Profiles	History	Take Temp	Reminders	

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1 INTRODUCTION

1.1 Purpose

This document identifies and defines the tactile, visual, and audio interactions with the thermometer device and mobile app of the VDT985 consumer model Vicks Bluetooth Digital Stick Thermometer.

1.2 Scope

Included in this UIS are the definitions of thermometer button functions, audio signals, light signals, user workflows and associated app display interactions for the VDT985 Bluetooth Digital Stick Thermometer.

1.3 References

SOP-05000000 Design Control PRD-V1601 Product Requirements Document

1.4 Terms and Abbreviations

Term/Abbreviation	Definition
UI	User Interface
S, sec	Seconds

2 **RESPONSIBILITIES**

Program Manager- Distributes document to cross-functional team, files document in the Design History File and assigns team members for document approval.

3 USER INTERFACE

3.1 Device ID

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3.2 App ID

App Icons	Meaning
	1. Bluetooth enabled indicator
1. 2.	2. Bluetooth NOT enabled indicator
1 2	1. Therm connected/paired indicator
	2. Therm NOT connected/paired indicator
Back	Back button, brings user to previous screen (located in upper
Dach	left-hand corner)
(i)	More Info
12	Anonymous measurement. Marks a saved temperature
	measurement that is saved in history but is not assigned to a profile.
?	Symbol appears next to Bluetooth and thermometer icons in
	upper right and provides helpful information

4 **DEVICE WORKFLOW**

4.1 User action with thermometer workflow

EVENT/MODE	USER ACTION	AUDIO	LED
Power ON therm	-User turns On thermometer by pressing	1 short beep	Solid Green – About 1-2
	the power button (when device is OFF)		seconds
	-User can press once or press and hold.		
	-Unit cannot be turned off for 5 seconds		

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	after power on.				
Therm NOT paired	User only needs to take action for first	none		Blinking red	
(standby mode)	time paring. Subsequent pairing occurs			(same as all er	rors)
	automatically				
1 st time paring	1. Thermometer can be ON or OFF	none.		When user pres	sses and
	2. User presses and holds down power			holds power bu	itton
	button (while normal turn on LED			normal turn on	LED
	sequence displays: green LED			sequence occu	irs: solid
	followed immediately by red blinking			green LED follo	owed
	LED)			Immediately by	red
	3. After exactly 3 seconds, red			blinking LED to	
	change to STEADY red light			not paired state	15)
	change to STEADT red light.			Therm will char	nae from
	4 App screen will prompt user to press			blinking red to S	STEADY
	"CONFIRM STEADY" Button on			red after exact	lv 3
				seconds. After	user
				confirms STEA	DY red
	5 Screen will show "Connecting"			LED by pushing	g app
				button,, LED wi	ill change
	6. When pairing has successfully			to GREEN.	
	completed, the thermometer's green				
	LED appears solid, and the therm is				
	ready to use.				
Therm IS paired	None.	none		Solid Green	
(standby mode)	(Therm is ready to take a measurement				
	and communicate with app.)				
Initiate Measurement	-User opens app and goes through take	none		Same as stand	by
	temp sequence on app.			—Solid Green	(if paired)
				or Blinking Red	l (if not
NA				paired)	
Measurement in progress	-User should keep therm inserted until	none		Blinking Green	
	Liser will see tomp increasing on the app				
	screen				
	-Power button is locked (therm cannot be				
	powered off) until measurement				
	completes				
Measurement Completes	User can remove thermometer and read	1 long bee	эр	Back to standb	у
(no errors)	temperature on app screen	Ū		—Solid Green	(if paired)
				or Blinking Red	l (if not
				paired)	
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Measurement Error Ambient Error Hi/Lo Temp Error System Error	Error message will appear on app screen (See below for specific error message app screens.)	2 quick beeps repeated 5x (same as V966)	Steady RED appears on thermometer until Take temp button is pressed or user navigates away from error screen
10% & 20% Low Therm Battery	Low battery warning displays on app screen only.	none	none
Less than 2.2 V Battery	Dead battery warning displays on app screen only.	2 quick beeps repeated 5x (same as V966)	Steady red
Power OFF therm	-User presses power button (when device is ON, but not actively taking a measurement) -Cannot be powered off within 5secs of power on- do we still want this?	1 short beep	LED off
Therm auto powers OFF	Device powers OFF automatically after 2mins of continuous standby	1 short beep	LED off

Short beep ~0.5sec

Long beep ~2 sec

5 APP WORKFLOW

5.1 First Time App Launch: Terms, Privacy, & App Tour

The following screen sequence illustrates the first time the app is opened after being downloaded. User is prompted to accept privacy policy, take tour and pair thermometer.



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5.2 TOUR:

If user selects TAKE TOUR from opening sequence, below app screens appear.



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5.3 First Time Pairing



Bluetooth should be "ON" in phone, if not pop up will appear. User must go to phone settings to turn on Bluetooth. When BT is on, the App will prompt to pair thermometer with APP by HOLDing temp button until steady red light, then confirm red light by pressing app button and then therm will connect to app and user can begin to take measurements.

After the first time use and thermometer has been paired, when the app is launched it will bring you directly to the Home screen (see below) after the splash page, skipping the rest of the first-time-use screens.

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5.4 Home Screen (Take Temp)



Upon initial launch, App will prompt user to create profile in the profile carousel. It they want to take measurement without a profile, thet can choose to take a temperature without a profile. The measurement will appear in ALL HISTORY screen as an unassigned reading. 1st fig- shows HOME screen upon launch, 2nd fig, HOME screenone profile created, 3rd fig-HOME screen 2 profiles created) Icon with question mark is "no profile selected."

When a user presses on any of the bottom bar icons (Profiles, History, Reminders, & More) the user will be brought to that section of the app. See the relevant sections below for details. (5.6 Profiles, 5.7 History, 5.8 Reminders, 5.9 More Menu)

The "Take Temp" icon in the bottom bar will always take users to the home page as shown above.

The App prompts the user to create profile FIRST so that measurements can be logged against created profiles ot patients.

5.5 Taking a Measurement

5.5.1 Enabling Bluetooth and Selecting Profile

If the APP is reopened after being closed, it will first make sure BT is enabled on the phone and then proceed to home screen. If BT is not enabled screen below will appear. User will

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enable Bluetooth on PHONE settings. User selects profile by using arrows to rotate carousel.



5.5.2 Bluetooth and Thermometer status -Sequence to take Measurement

Conditions at start of measurement (in order of hierarchy)...



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- If the thermometer is ON and paired and inserted properly the user will see the "Reading in progress" screen
- This screen shows an active animation of the real time temperature being measured (displays increasing highest temperature)



Full Measurement sequence



5.5.3 Measurement complete

Measurement will appear in color relating to Fever Reference Chart. Profile, location and last 3 measurements of that profile will be displayed.



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5.6 Profiles

User can create Profile from the Home screen by pressing the CREATE PROFILE button on the Carousel. They can also create profiles by pressing the profiles button on the bottom tab. When they press "create profile" the "Create a new profile" screen appears.

iPod 🗟	1:54 PM	* % == >	iPod 🗢	11:08 AM	≁ ∦ 💼	K Back	VICKS	* ()
	Vicks			VICKS	80	Creat	e a new pro	ofile
Ple	ease create a pro	ofile		Profiles		Name		
	before taking a temperature.		B	Create New	Profile	Birthday ⁻	Tap to set Add Photo	
(This fo	: allows you to chart or each family memb Create Profile	history ber)	Betty Hi	story Edit	Delete		Save	
	Take a temperatu without profile.	re					Cancel	
Derofiles	History Take Temp Ren) =	Profiles Histo	ry Take Temp Remir	nders More	Profiles History	Take Temp Remind) <u>—</u> ders More

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5.7 History



- Users can select to see ALL history or a date range of the history.
- The History will always default to display in List view (as seen above). By clicking on "List/Graph" button, you can switch from viewing in List format or viewing in Graph format (as seen below).
- The blue "Take temp" button goes to the "Home" screen (same as the Take Temp icon in the bottom gray bar)
- The blue "Export" button allows user to send their data to an external source via email. (See "Export data" section for more details)

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5.7.1 Add Manual Event

When user touches "Add Event" button on the History screen, they will be brought to the following screen, where they can manually enter the appropriate information for a temperature that may not have been taken with the VDT985. App will prompt for location if temperature is input.



5.7.2 Edit a Measurement

When user touches "Edit/Add Info" next to reading on history screen, user can add, save, delete information or change the profile that the measurement was initially assigned to.



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5.7.3 Exporting Data

When user touches "Export" button on the History screen, they will be brought to the following screen, where she can select history range and export format and where to export information to.

^{iPod} 奈 〈 Back		12:4	1 PM		1 ∦ ➡ € ()
Time	All	Day	Week	Month	Range
	Or	4/21/	15 To 3 readir	4/2	1/15
File Fo	rmat	.CSV	.jpg		i)
	View	List	Gra	ph	Both
Email joe@domain.com Save Image					
Export					
ß			Q	0	=
Profiles	History	/ Take	S Temp R	eminders	More

5.8 Reminders

When user touches "Reminder" tab on bottom of Home screen, they will be brought to the Reminder screen. User can create reminders that will be "pushed" to the phone and appear a on phone home screen.



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5.9 "More Menu" functions

iPod ᅙ	11:07 AM	1 * 📑
	VICKS	*0
Add New De	evice	
Settings		
Temperature	Reference Chart	
App Tour		
User Manual		
Battery		>
Tips and Adv	vice	>
Vicks.com		>
Browse All P	roducts	×
Contact Tech	Support	>
Profiles History	Take Temp Reminders	More

5.9.1 Add new device

Will enable user to pair or repair thermometers to the app. Will revert to First Time Pairing sequence. See section 5.3.

5.9.2 Settings (switch C/F)

Allows you to switch the displayed temperatures between Celsius and Fahrenheit

^{iPod} 奈 〈 Back	11:07 AM	→ ∦ <u></u>
	Settings	
Temperature N	Neasurement	
Units	Farenheit	Celsius
Information		
Version		
Privacy		
About		
8 🗐		

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5.9.3 Temperature Reference Chart

Will show below fever reference chart:

iPod 1	ই		1 * 🔤		
< В	ack	VICKS	8 ()		
This table displays the temperature ranges measured by this thermometer. Note: For readings below 96.4°F / 35.8°C, the background color will be gray.					
	Oral	Underarm	Rectal		
°F	96.4 - 99.4	96.2 - 99.2	97.3 - 100.3		
°C	35.8 - 37.4	35.7 - 37.3	36.3 - 37.9		
°F	99.5 - 101.3		100.4 - 102.2		
°C	37.5 - 38.5	37.4 - 38.4	38.0 - 39.0		
°F	101.4 - 109.2	101.2 - 109.2	102.3 - 109.2		
°C	38.6 - 42.9	38.5 - 42.9	39.1 - 42.9		
Profile	es History	Take Temp Remin	iders More		

5.9.4 App Tour

Will launch tour. Go to section 5.2

5.9.5 User Manual

This tab will take you to the online Owner's Manual. The content below will appear in this version of the Owner's Manual.



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5.9.5.1 FCC Identification Number

FCC ID: 2ABRGVDT985

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.

5.9.5.2 FCC Warning

Changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

5.9.5.3 FCC Statement

<u>NOTE:</u> This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications.

However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- □ Reorient or relocate the receiving antenna.
- □ Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.



5.9.6 Battery

Will enable user to pair or repair thermometers to the app.



5.9.7 Tips and Advice

Will take user to this webpage:



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Will take user to this webpage:



5.9.9 Browse All Products

Will take user to this webpage:



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5.9.10 Contact Tech Support

Will direct users to http://www.vickshumidifiers.com/support

5.10 LOW BATTERY INDICATOR

When battery has 10% life left, App screen will display: "WARNING! Thermometer has 20% battery life remaining. Please replace with CR2032 battery."

When battery has less than 2.2.V, App screen will display: "REPLACE BATTERY! Thermometer battery has run out. Please replace with CR2032 battery."



5.11 ERROR MESSAGES

When measured temperature is higher than 42.9°C or 109.22, the App will display "INVALID MEASUREMENT Please remove thermometer for 8 seconds and reinsert to start another measurement."



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5.11.1 Low temperature display

When measured temperature is below 89.6F or 32C App will display:

"INVALID MEASUREMENT Please remove thermometer for 8 seconds and reinsert to start another measurement."



5.11.2 Ambient Error

When ambient temperature is BELOW 50F or 10C, the App will display: "ENVIRONMENT TOO COLD. Please move to a warmer temperature for 15 minutes and try again."

Pop up appears when ambient temperature is BELOW 50F (10C)	Pop up appears when thermometer reading is ABOVE 104F (40C)
#5a	#5b
vice vice	vec 0 0
(X) ENVIRONMENT DO COLD. Please move thermometer to a warmer temperature for 15 minutes and try again.	© ENVIRONMENT TOO HOT. Please move thermometer to a coder temperature for 15 minutes and try again.
°F	
8 Santa Control Santa S	A Brotha Station Rentrology Mare

When ambient temperature is ABOVE 104F or 40C, the App will display: "ENVIRONMENT TOO HOT. Please move to a warmer temperature for 15 minutes and try again."

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If ambient temperature is in the same range as human temperature (89-108F) AND thermometer has not detected insertion or removal (temp change) within 20 seconds, App will display button *screen below.* User presses button to initiate thermometer to take reading. (Scenario- if ambient temperature is exactly same as human body measured temperature, thermometer will not know when to take a reading.))

If ambient temperature is in the same range as human temperature (89-108F) AND thermometer has not detected insertion or removal (temp change) within 20 seconds, pop up appears. User presses button to initiate thermometer to take reading. (Scenario- for audit purposes, if ambient temperature is exactly same as human body measured temperature, thermometer will not know when to take a reading.)



5.11.3 System Error

When a system error occurs such as a short or broken circuit, the app displays *"Please call customer service at <u>1-800-477-0457"</u> (Clickable- to dial out.)*

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Pop up appears when thermometer has critical system malfunction like circuit error

#6

5.11.4 Premature Removal of Thermometer

If user removes thermometer before measurement is complete, App will display..."Error. Please reinsert thermometer and wait for confirmation beep."



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5.11.5 Remove Thermometer Error

If a reading has already been completed AND the thermometer has not detected insertion or removal of thermometer (temp change), the App displays: "*REMOVE THERMOMETER Please remove thermometer for 8 seconds and reinsert to start another measurement.*" (Scenario-If user tries to take another temperature right after a measurement, but doesn't remove thermometer

If a reading has already been completed **AND** the thermometer has not detected insertion or removal of thermometer (temp change) this pop up appears. (Scenario-If user tries to take another temperature right after a measurement, but doesn't remove thermometer)



5.12 Enter Water bath/Calibration mode



6 INSIGHT TABLES (PROGRAMMED INTO THE APP)

For all of the following tables:

Temperatures below the "No color" range or above the "Red" range will not display a temperature value, and instead will show an error message on the app. The device will also display the red blinking error LED and beeps.

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6.1 US app Insight colors -No AgeSmart

Site	Scale	No Colo (but ten displays	or np s)	Green (Healthy	Temperature)	Yellow (Slightly Elevate	, d)	Red (Eleva	ated)	
Oral	°F			JIM/DA	NIEL TO C	HECK		1.	3 ≤109.	.2
Urai	°C	1						5	≤42.9)
Under	°F	≥89.6	≤96.1	>96.1	≤99.2	>99.2	≤101.1	>101	1 ≤109.	.2
Arm	°C	≥32.0	≤35.6	>35.6	≤37.3	>37.3	≤38.4	>38.4	≤42.9)
Destal	°F	≥89.6	≤97.2	>97.2	≤100.3	>100.3	≤102.2	>102	2 ≤109.	.2
Rectar	°C	≥32.0	≤36.2	>36.2	≤37.9	>37.9	≤39.0	>39.0	≤42.9)

6.2 EMEA and CA app Insight colors –With AgeSmart

Sito	Age	No Color	Green	Yellow	Red
Sile	Range	(but temp displays)	(Healthy Temperature)	(Slightly Elevated)	(Elevated)
	≤ 3 months	<96.4°F <u>or</u> <35.8°C	≥96.4°F <u>or</u> ≥35.8°C ≤99.4°F <u>or</u> ≤37.4°C	N/A	>99.4°F <u>or</u> >37.4°C
Oral	>3 months ≤ 36	<95.7°F <u>or</u> <35.4°C	≥95.7°F <u>or</u> ≥35.4°C ≤99.6°F <u>or</u>	>99.6°F <u>or</u> >37.6°C ≤101.3°F <u>or</u>	>101.3°F <u>or</u> >38.5°C
	mont	JIM/D	ANIEL TO CHECK	>	
	>36 months	<95.7°F <u>or</u> <35.4°C	≥35.4°C ≤99.9°F <u>or</u> ≤ 37.7°C	37.7°C ≤103.0°F <u>or</u> ≤39.4°C	>103.0°F <u>or</u> >39.4°C

Site	Age Range	No Color (but temp displays)	Green (Healthy Temperature)	Yellow (Slightly Elevated)	Red (Elevated)
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	≤ 3 months	<96.2°F <35.7°C	<u>or</u>	≥96.2°F ≥35.7°C ≤99.2°F ≤37.3°C	or or	N/A	>99.2°F <u>or</u> >37.3°C
Underarm	>3 months ≤ 36 months	<95.5°F <35.3°C	<u>or</u>	≥95.5°F ≥35.3°C ≤99.4°F ≤37.4°C	e <u>or</u> c c	>99.4°F <u>or</u> >37.4°C ≤101.1°F <u>or</u> ≤38.4°C	>101.1°F <u>or</u> >38.4°C
	>36 months	<95.6°F <35.3°C	or	≥95.6°F ≥35.3°C ≤99.4°F 37.4°C	= <u>or</u> C = <u>or</u> ≤	>99.4°F <u>or</u> >37.4°C ≤102.9°F <u>or</u> ≤ 39.4°C	>102.9°F <u>or</u> >39.4°C

Site	Age	No Color	Green	Yellow	Red
	Range	(but temp displays)	(Healthy Temperature)	(Slightly Elevated)	(Elevated)
		<97.3°F <u>or</u>	≥97.3°F <u>or</u>		
	≤ 3	<36.3°C	≥36.3°C	N/A	>100.3°F <u>or</u>
	months		<100.2°E or	N/A	ၣႍၜႝႋႄ
			JIM/DANIEL TO	CHECK	
	>3		≥96.6°F <u>or</u>	>100.5°F <u>or</u>	
Dectal	months	<96.6°F <u>or</u>	≥35.9°C	>38.1°C	>102.2°F <u>or</u>
Reclai	≤ 36	<35.9°C	≤100.5°F <u>or</u>	≤102.2°F <u>or</u>	>39.0°C
	months		≤38.1°C	≤39.0°C	
			≥96.6°F <u>or</u>	>100.8°F <u>or</u> >	
	>36	<96.6°F <u>or</u>	≥35.9°C	38.2°C	>103.9°F <u>or</u>
	months	<35.9°C	≤100.8°F <u>or</u> ≤	≤103.9°F <u>or</u> ≤	>39.9°C
			38.2°C	39.9°C	

7 DOCUMENT INFORMATION AND APPROVAL

7.1 Revision History

Old	New	Dete	Originator/	Change
Rev	Rev	Dale	Author	Description
-	А	7/25/2014	Katie Sofia	Initial Release
	2	2-13-2015	Zoey Juhng	

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3	2_13_2015	Zoey Juhng	
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6	4_28_15	Zoey Juhng	
7	4_29-15	Zoey Juhng	

7.2 Approval

7.3 Effective date:

Approval signatures are filed at Document Control Function Name Signature

Function	Name	Signature	Date
Program Management	Daniel Lawton		
Industrial Design	Zoey Juhng		
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Marketing (EMEA)	Julien Charriere		
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Operations (Microlife)	Willis Chan		
Regulatory?	Raj K		
Quality?	Billy Li		

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