

# THE WAHL DST600 SOLUTION!



Wahl DST600 with Rigid Mount shown with 1-1/4"-18 Swivel Nut Fitting & Tapered Bulb for use in thermowells.



## The Wahl DST600 Solution to the FDA Proposed Rule Change to 21CFR Part 113

Investing in the NEW DST600 Digital RTD Thermometer puts you on the road towards meeting or exceeding the Proposed Rule changes from the FDA.

- The Wahl DST600 has the most advanced patent pending RTD technology available of any thermometer on the market today that guarantees accuracy and reliability during processing.
- Includes NIST Traceable Report of Calibration to establish your documentation requirements.
- If you certify your product with Palmer Wahl every year we provide a "before and after report" so we can monitor the thermometer's performance and determine the appropriate calibration interval. Your recertified DST600 will be returned to you with the documentation needed for the FDA.
- Enrolling in our eMinder service allows us to remind you when your thermometer is due for recertification.

This brochure highlights how the Wahl DST600 meets or exceeds the FDA Requirements. We are so confident in the DST600 accuracy and performance that we guarantee its performance for one year - or we will refund 100% of your money back.

There is no reason to delay implementing the best solution to the Proposed Rule change. Palmer Wahl makes it easy and risk free for you to confidently move forward installing the most advanced thermometer in the world!



[www.palmerwahl.com](http://www.palmerwahl.com)  
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10/08 Rev B

FDA Proposed Rule 21CFR Part 113			Wahl DST600 Solution
<i>Items 1 and 2 are from the Preamble.</i>			
1	Page 11991	... <b>evidence</b> that if the device does not maintain its accuracy, it would become immediately known by the operator...	Patent Pending Self-Checking circuitry checks meter accuracy every 8 seconds. Display indicates ""err"" if accuracy check fails. Resets automatically when corrected. Additional internal checks are continuously performed for detection of low battery, over/under temp, open/shorted wires, etc. Display indicates warning of a fault. Only authorized probes can be used, thus assuring accuracy. If authorized probe is not used, unit will display error code.
2	Page 11991	As with mercury-in-glass thermometers, manufacturers who use alternative temperature-indicating devices must conduct appropriate <b>tests</b> and implement <b>procedures</b> to ensure that the device is accurate <b>during processing</b> and does not result in under-processed foods.	Wahl recommends <b>side-by-side testing with a NIST Certified Palmer mercury-in-glass thermometer</b> for initial evaluation, or to establish <b>progressive recalibration periods (3, 6, 12 months) for the first year of operation</b> . <b>Records</b> of each test should be maintained.
<i>The following items are from the proposed rule.</i>			
3	113.40 (1)	Temperature-indicating devices shall be <b>tested for accuracy</b> against an accurate calibrated reference device by appropriate standard procedures, upon installation and at least once a year thereafter, or more frequently if necessary, to ensure accuracy during processing.	Wahl delivers all DST600's with <b>NIST traceable certification</b> including test data. Wahl also offers our annual "eMinder" service to remind you when it is time to return your thermometer for an independent recertification. This helps to aid in your determination of the instruments performance and the appropriate calibration interval. The processor is responsible for generation of appropriate standard procedures.
4	113.40 (i)	The design of the temperature-indicating device shall ensure that the accuracy of the device is <b>not affected by electromagnetic interference</b> and environmental conditions.	The DST600 is <b>CE approved</b> to EN61326: 2006 for immunity to electromagnetic interference, electrostatic discharge and radiated emissions.
4a		<b>Humidity and moisture</b>	<b>NEMA-4X enclosure and conformal coating</b> on PCB eliminate effects of humidity.



FDA Proposed Rule 21CFR Part 113			Wahl DST600 Solution
4b		<b>Ambient Temperature variations</b>	Ambient Temperature coefficient of <b>no greater than .003°/°</b> . This equates to no more than .03° change in reading for a 10° ambient temperature change.
4c		<b>Vibration</b>	Tested in accordance with <b>MIL STD 202G</b> Method 201A extended to 60Hz vibration: 10 to 60 Hz.
4d		Each temperature-indicating device and reference device shall have a <b>tag, seal, or other means of identity</b> .	DST600's are <b>clearly marked</b> with unique serial numbers visible from the front panel. Serial numbers are also <b>electronically stored</b> in internal memory and cannot be tampered with by the user. Custom user identification numbers may be added by user.
5	113.40 (ii)	<b>Written documentation</b> of the accuracy of the temperature-indicating device and the reference device <b>shall be established and maintained</b> .	Processor is responsible for establishment and maintenance of documents. <b>All NIST Traceable Reports of Calibration performed by Wahl are provided in writing</b> and include test data showing "as received" analysis and "as returned" accuracy of the instrument.
6	113.40 (A)	<b>Documentation</b> of the accuracy of the temperature-indicating device shall include a reference to the tag, seal, or other means of identity used by the processor to identify the temperature-indicating device, the name of the manufacturer of the temperature-indicating device, the identity of the reference device used for the accuracy test and of equipment and procedures used to adjust or calibrate the temperature-indicating device, the date and results of each accuracy test, the name of the person or facility that performed the accuracy test and adjusted or calibrated the temperature-indicating device, and the date of the next scheduled accuracy test.	Wahl's NIST Traceable Report of Calibration includes all of the requirements of this paragraph. <b>Wahl recommends you return product to Palmer Wahl for re-calibration.</b> If processors perform their own testing, compliance to this paragraph is required. Wahl's calibration software is simple, fast and easy to use.
7	113.40 (iv)	A temperature-indicating device shall be <b>easily readable to 1°F (0.5°C)</b> .	<b>DST600 has 0.1°F/C resolution.</b>



**Complete Calibration Services Available**

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# Wahl® DST600 Solution

FDA Proposed Rule 21CFR Part 113		Wahl DST600 Solution
<i>Additional info:</i>		
8	NIST Certification Test Reports	<b>Wahl includes a 3 point NIST Traceable Certificate of Calibration.</b> A calibration tag is placed on the face of the case indicating date calibrated, date due, calibrated by, and test report #. The calibration cycle is initially set at 1-year, but may be modified to reflect processors specification.
9	Sanitary probes	<b>All Wahl sanitary probes are 3A Compliant</b>
10	Proposed Rule Compliance:	We use the <b>most advanced RTD technology in temperature measurement today</b> , and have enhanced it further with <b>self-checking capabilities to ensure accuracy and reliability.</b> The DST600 uses a highly stable platinum thin film sensor with long term stability in the order of < 0.02°C (0.036°F)
11	The FDA wants alternative devices that will function accurately and reliably.	<b>Palmer Wahl Guarantee. Investing in the DST600 is risk free because it is guaranteed to function accurately and reliably as evidenced by its patent pending self checking circuitry. If the Wahl DST600 fails to maintain its accuracy and reliability during the first year of ownership, it can be returned to Palmer Wahl for a 100% refund.</b>



*Wahl DST600 Adjustable Angle mounting system allows meter adjustment to any angle required for best viewing. Shown with 1-1/4"-18 Swivel Nut Fitting and 1/4" Diameter Stem for quick response in union connections.*



*Wahl DST600 shown with default display for disconnected cable, and Quick Disconnect on probe and meter connections.*



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