HI83300 Family

Multiparameter **Photometers**

with Digital pH Electrode Input

The HI83300 family of multiparameter photometers features seven models to cover a wide variety of applications. These meters are compact and versatile making them ideal for both benchtop or portable operation.

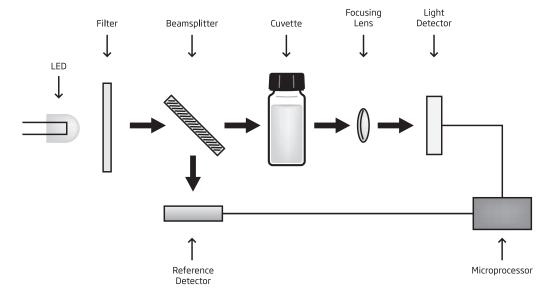
- Advanced optical system
 - · Innovative optical design that utilizes a reference detector and focusing lens to eliminate errors from changes in the light source and from imperfections in the glass cuvette.
- Up to 73 different programmed methods measuring 40 key water and
- High performance pH meter temperature electrodes.



Since 1978, Hanna has introduced instruments that tailor to the needs of a specific application or industry. From this philosophy we have created Application Designed Photometers to satisfy the needs of your specific application

HI83303
HI83305
HI83306
HI83300
HI83225
HI83326
HI83308





Improved Optical System

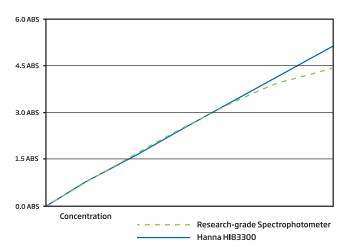
HI83300 family is designed with an innovative optical system that incorporates a beam splitter so that light can be used for absorbance readings and by the reference detector. The reference detector monitors the intensity of light and modulates when there is drift due to power fluctuation or the heating of the optical components. Each part has an important role in providing unparalleled performance from a photometer.

High Efficiency LED Light Source

An LED light source offers superior performance as compared to a tungsten lamp. LEDs have a much higher luminous efficiency, providing more light while using less power. They also produce very little heat, which could otherwise affect the optical components and electronic stability.

Quality Narrow Band Interference Filters

The narrow band interference filter not only ensures greater wavelength accuracy ($\pm 1\,\mathrm{nm}$) but is also extremely efficient, allowing a brighter, stronger signal to be transmitted. The end result is increased measurement stability and less wavelength error.



Better linearity than research-grade spectrophotometers

Reference Detector for a Stable Light Source

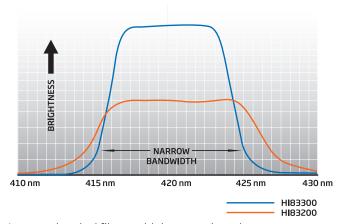
A beam splitter is used as part of the internal reference system of the HI83300 photometer. The reference detector compensates for any drift due to power fluctuations or ambient temperature changes. Now you can rely on a stable source of light.

Large Cuvette Size

The sample cell of the HI83300 fits a round, glass cuvette with a 25 mm path length. Along with the advanced optical components, the larger size of the cuvette greatly reduces errors in rotation from the indexing mark of the cuvettes. The relatively long path length of the sample cuvette allows the light to pass through more of the sample solution, ensuring accurate measurements even in low absorbance samples.

Focusing Lens for Greater Light Yield

Adding a focusing lens to the optical path allows for the collection of all of the light that exits the cuvette and focusing the light on the silicon photo detector. This innovative approach to photometric measurements cancels the errors from imperfections and scratches present in the glass cuvette eliminating the need to index the cuvette.



Improved optical filters – higher wavelength accuracy and light throughput







1 pH Connectivity

Any of our digital pH electrodes can be connected to the HI83300 family by a 3.5 mm input. Plugging in an electrode has never been easier; there are no alignment issues or broken pins. Simply connect the electrode and start taking measurements.

2 Dual Power Supply

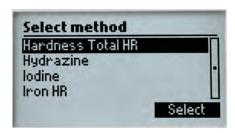
What makes the HI83300 family such versatile meters is their ability to be used as a portable or benchtop meter. Equipped with a rechargeable lithium ion battery, these meters can easily be brought on the production room floor or taken for measurements on the move. This long-

lasting battery lasts up to 500 photometer measurements or 50 hours of continuous pH measurements. To further preserve battery life, the auto-off feature automatically shuts off the meter after 15 minutes of inactivity. If being used on a benchtop, a power supply can be plugged into the micro USB port at the back of the meter.

23 USB Connectivity

Both a USB and micro USB port are located on the meters. Each of these ports can be used to transfer data via flash drive or direct connection to a PC or MAC. Data is transferred as CSV files for easy processing and widespread compatibility.

Photometer Capabilities



Concentration Measurement Function

Users can access the menu of measurement methods with the simple press of a button. Low, medium, and high range methods of several parameters are available for users to obtain a high accuracy reading. Each method is assigned a concentration unit of measure. Parameters can be expressed in different chemical forms based on their preference.

CAL Check™ Functionality

Hanna's exclusive CAL Check feature allows for performance verification of the independent measuring channels. Our CAL Check standard vials are developed to simulate a specific absorbance value at each wavelength to verify its accuracy.

Built-in Reaction Timer

Reaction time is of key importance when performing colorimetric measurements, which is why the built-in timer of the HI83300 is a key feature. The countdown timer displays the time remaining until a measurement will be taken, ensuring consistent results between measurements and users.



pH Measurement

The HI83300 family offers the ability to connect a digital pH electrode. Users can connect any sensor from our extensive line of digital pH electrodes. Whether a user requires a glass or plastic body, a spheric or conical tip shape, or the ability for safe use with food samples, our digital electrode offering is suitable for nearly everyone.



Large Cuvettes

The sample cell of these meters fits a round, glass cuvette with a 25 mm path length. The relatively long path length of the sample cuvette allows the light to pass through more of the sample solution, ensuring accurate measurements even in low absorbance samples. This cuvette size also provides a larger opening, making it easier for users to dispense ready-made liquid or powder reagents into the sample.

An affixed, light-blocking cover panel closes over the sample cell, reducing stray light from affecting any measurement readings.



Absorbance Measurement Mode

Users can select to calibrate and measure samples in absorbance mode for each wavelength used by the meter. This mode is a convenient way for users to develop their own calibration curves and measure samples with customized chemistries.

Data Management Capabilities

User ID and Sample ID

An alphanumeric keypad can be used to enter sample ID and user ID to be stored with the measurement reading. The recall key allows the user to review the data along with the date and time that the reading was taken.



Data Management

The HI83300 family can store up to 1000 photometer and pH electrode readings, which can be logged by pressing the LOG key on the face of the meter. pH readings are logged along with comprehensive GLP (Good Laboratory Practice) information such as date, time, calibration buffers, and electrode offset and slope.

USB for Data Transfer

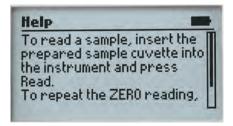
Two USB ports are provided for transferring data. One port allows the data to be transferred to a flash drive while the other USB is used for direct connection to a computer. All data is transferred as a .CSV file that can be used with many spreadsheet programs for documentation.

Display Features



Backlit Graphic LCD Display

A backlit, graphic LCD display provides an easy to read, user-friendly interface.



Intuitive Display

With virtual keys, a battery status indicator, and practical error messages, users will find the meter interface intuitive. On-screen guides provide information relating to the current meter operation, and can be used at any stage in the setup or measurement process to show contextual help.





General Specifications for all Models

Measurement Chan	nels	5 x optical channels; 1 x digital electrode channel (pH measurement)			
Absorbance	Range	0.000 to 4.000 Abs			
	Resolution	0.001 Abs			
	Accuracy	±0.003 Abs (at 1.000 Abs)			
	Light Source	light-emitting diode			
	Bandpass Filter Bandwidth	8 nm			
	Bandpass Filter Wavelength Accuracy	± 1.0 nm			
	Light Detector	silicon photocell			
	Cuvette Type	round, 24.6 mm diameter and 16 mm diameter			
	Number of Methods	128 max			
рН	Range	-2.00 to 16.00 pH (±1000 mV)*			
	Resolution	0.01 pH (0.1 mV)			
	Temperature Compensation	Automatic (-5.0 to 100.0°C; 23.0 to 212.0°F)*			
Temperature	Range	-20 to 120°C (-4.0 to 248.0 °F)			
	Resolution	0.1 °C (0.1 °F)			
Additional Specifications	pH electrode	digital pH electrode (not included)			
	Logging	1000 readings (mixed photometer and electrode); log on demand with user name and sample ID optional input			
	Display	128 x 64 pixel LCD with backlight			
	Connectivity	USB-A host for flash drive; micro-USB-B for power and computer connectivity			
	Battery Life	3.7 VDCLi-polymer rechargeable battery / > 500 photometric measurements or 50 hours of continuous pH measurement			
	Power Supply	5 VDC USB 2.0 power adapter with USB-A to micro-USB-B cable (included)			
	Environment	0 to 50°C (32 to 122°F); 0 to 95% RH, non-condensing			
	Dimensions	206 x 177 x 97 mm (8.1 x 7.0 x 3.8 in.)			
	Weight	1.0 kg (2.2 lbs.)			



HIB3300-100 sample preparation kit consisting of activated carbon for 50 tests, demineralizer for preparation of 10 L deionized water (100 g), 170 mL graduated beaker, 100 mL beaker, 3 mL pipette, 60 mL syringe, 5 mL syringe, graduated cylinder, spoon, funnel, paper filters (25)



HI72083300 carrying case for HI83300 family



HI76404A electrode holder for HI83300 family



HI11310 digital combination pH electrode



HI75110/230 USB power supply



HI920015 USB to micro USB cable connector



HI731318 cuvette cleaning cloth (4)



HI731331 cuvette (4) **HI731335N** caps for cuvette (4)



HI740036P beaker, plastic 100 mL (10) **HI740034P** cap for 100 mL plastic beaker (10)



HI740224 plastic beaker 170 mL (12)



 $\textbf{HI740225} \ 60 \ \text{mL} \ \text{graduated syringe}$



HI740226 5 mL graduated syringe



HI93703-55 activated carbon for 50 tests



HI83300

Multiparameter Photometer

with Digital pH Electrode Input for Laboratories

HI83300 is a compact, multiparameter photometer for use in the lab or in the field. The meter is one of the most advanced photometers available with an innovative optical design that utilizes a reference detector and focusing lens to eliminate errors from changes in the light source and from imperfections in the glass cuvette. This meter has 63 different programmed methods measuring 37 key water quality parameters and also offers an absorbance measurement mode for performance verification and for users that would like to develop their own concentration versus absorbance curves.

To save valuable laboratory benchtop space, the HI83300 doubles as a professional pH meter with its digital pH/temperature electrode input. Now one meter can be used for both photometric and pH measurements.



• Advanced optical system

 Innovative optical design that utilizes a reference detector and focusing lens to eliminate errors from changes in the light source and from imperfections in the glass cuvette

Backlit 128 x 64 Pixel Graphic LCD Display

- Backlit graphic display allows for easy viewing in low light conditions
- The 128 x 64 Pixel LCD allows for a simplified user interface with virtual keys and on-screen help to guide the user through use of the meter

• Built-in Reaction Timer for Photometric Measurements

- The measurement is taken after the countdown timer expires.
- Countdown timer ensures that all readings are taken at the appropriate reaction intervals regardless of user for better consistency in measurements

· Absorbance mode

- Hanna's exclusive CAL Check™ cuvettes for validation of light source and detector
- Allows for the user to plot concentration versus absorbance for a specific wavelength for use with user supplied chemistry or for teaching principles of photometry

Units of Measure

 Appropriate unit of measure along with chemical form is displayed along with reading

Result Conversion

 Automatically convert readings to other chemical forms with the touch of a button

Cuvette Cover

 Aids in preventing stray light from affecting measurements

• Digital pH Electrode Input

- Measure pH and temperature with a single probe
- Good Laboratory Practice (GLP) to track calibration information including date, time, buffers used, offset and slope for traceability
- pH CAL Check alerts user to potential problems during the calibration process
- Space saving having a pH meter and photometer built into one meter

• Data Logging

 Up to 1000 photometric and pH readings can be stored by simply pressing the dedicated LOG button. Logged readings are just as easily recalled by pressing the RCL button Sample ID and User ID information can be added to a logged reading using the alphanumeric keypad

Connectivity

- Logged readings can be quickly and easily transferred to a flash drive using the USB-A host port or to a computer using the micro USB-B port
- Data is exported as a .CSV file for use with common spreadsheet programs

• Rechargeable Battery

 Li-polymer rechargeable battery lasts for 500 measurements or 50 hours of pH measurement

• Battery Status Indicator

· Indicates the amount of battery life left

Error Messages

- · Photometric error messages
- pH calibration messages include clean electrode, check buffer and check probe



Range	Resolution	Accuracy (@ 25°C)	Interference Filter	Method	Reagent Code
0 to 500 mg/L (as CaCO₃)	1 mg/L	±5 mg/L ±5% of reading	@ 610 nm	bromocresol green	HI775-26 25 tests
0 to 300 mg/L (as CaCO₃)	1 mg/L	±5 mg/L ±5% of reading	@ 610 nm	bromocresol green	HI755-26 25 tests
0.00 to 1.00 mg/L (as Al³+)	0.01 mg/L	±0.04 mg/L ±4% of reading	@ 525 nm	aluminon	HI93712-01 100 tests
0.00 to 3.00 mg/L (as NH ₃ -N)	0.01 mg/L	±0.04 mg/L ±4% of reading	@ 420 nm	Nessler	HI93700-01 100 tests
0.00 to 10.00 mg/L (as NH ₃ -N)	0.01 mg/L	± 0.05 mg/L $\pm 5\%$ of reading	@ 420 nm	Nessler	HI93715-01 100 tests
0.0 to 100.0 mg/L (as NH_3 -N)	0.1 mg/L	±0.5 mg/L ±5% of reading	@ 420 nm	Nessler	HI93733-01 100 tests
0.00 to 8.00 mg/L (as Br_z)	0.01 mg/L	± 0.08 mg/L $\pm 3\%$ of reading	@ 525 nm	DPD	HI93716-01 100 tests
0 to 400 mg/L (as Ca ^{z+})	1 mg/L	±10 mg/L ±5% of reading	@ 466 nm	oxalate	HI937521-01 50 tests
200 to 600 mg/L (as Ca ²⁺)	1 mg/L	±6% of reading	@ 610 nm	zincon	HI758-26 25 tests
0.0 to 20.0 mg/L (as Cl ⁻)	0.1 mg/L	±0.5 mg/L ±6% of reading	@ 466 nm	mercury (II) thiocyanate	HI93753-01 100 tests
0.00 to 2.00 mg/L (as ClO ₂)	0.01 mg/L	±0.10 mg/L ±5% of reading	@ 575 nm	chlorophenol red	HI93738-01 100 tests
0.00 to 2.00 mg/L (as CIO ₂)	0.01 mg/L	±0.10 mg/L ±5% of reading	@ 525 nm	DPD-Glycine	HI96779-01 100 tests
0.00 to 5.00 mg/L (as CL-)	0.01 ma/l	+0.03 mg/L +3% of reading	@ 525 nm	npn .	HI93701-01 100 tests
					HI95762-01 100 tests
5 (2)					HI93711-01 100 tests
					HI95761-01 100 tests
3 (2)					HI95771-01 100 tests
					HI93749-01 100 tests
					HI93723-01 100 tests
15 (/					
				<u> </u>	HI95747-01 100 tests
				bicinchoninate	HI93702-01 100 tests
		±1 mg/L ±15% of reading			HI93722-01 100 tests
				SPADNS	HI93729-01 100 tests
					HI93739-01 100 tests
					HI93720-01 100 tests
3 (3)				-	
0.00 to 2.00 flig/L (ppfli) (as CaCO ₃)	U.U1 IIIg/L	±0.11 mg/L ±5% or reading	@ 525 1111	Caimagite	HI93719-01 100 tests
0 to 250 mg/L (as CaCO₃)	1 mg/L	±5 mg/L ±4% of reading	@ 466 nm	calmagite	HI93735-00 100 tests
200 to 500 mg/L (as CaCO₃)	1 mg/L			calmagite	HI93735-01 100 tests
400 to 750 mg/L (as CaCO₃)	1 mg/L			calmagite	HI93735-02 100 tests
0 to 400 μg/L (as N _z H ₄)	1 μg/L	±4% of full scale reading	@ 466 nm	p-Dimethylaminobenzaldehyde	HI93704-01 100 tests
0.0 to 12.5 mg/L (as I ₂)	0.1 mg/L	±0.1 mg/L ±5% of reading		DPD	HI93718-01 100 tests
	0.001 mg/L			TPTZ	HI93746-01 50 tests
	0.01 mg/L			phenanthroline	HI93721-01 100 tests
0.00 to 6.00 mg/L Fe ²⁺	0.01 mg/L	±0.10 mg/L ±2% of reading	@ 525 nm	phenanthroline	HI96776-01 100 tests
0.00 to 6.00 mg/L Fe	0.01 mg/L	± 0.10 mg/L $\pm 2\%$ of reading	@ 525 nm	phenanthroline	HI96777-01 100 tests
0 to 150 mg/L (as Mg ²⁺)	1 ma/l	+5 mg/L +3% of reading	@ 466 nm	calmagite	HI937520-0150 tests
					HI93748-0150 tests
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,					HI93709-01 100 tests
				•	HI93730-01 100 tests
	0.001 mg/L		@ 575 nm	PAN	HI93740-01 50 tests
					HI93726-01 100 tests
				•	HI93728-01 100 tests
					HI764-25 25 tests
					HI93707-01 100 tests
					HI93708-01 100 tests
0.0 to 10.0 mg/L (as O ₂)	0.1 mg/L	±0.4 mg/L ±3% of reading	@ 420 nm	Winkler	HI93732-01 100 tests
		±0.02 µg/L ±3% of reading			HI96773-01 100 tests
0 to 1000 μg/L (as DEHA)	1μg/L	±5 μg/L ±5% of reading	@ 575 nm	iron reduction	HI96773-01 100 tests
0.00 to 2.50 mg/L (as Hydroquinone)	0.01 mg/L	±0.04 μg/L ±3% of reading	@ 575 nm	iron reduction	HI96773-01 100 tests
	0.01 mg/L	±0.03 μg/L ±3% of reading	@ 575 nm	iron reduction	HI96773-01 100 tests
0.00 to 2.00 mg/L (as O ₃)	0.01 mg/L	±0.02 mg/L ±3% of reading	@ 525 nm	DPD	HI93757-01 100 tests
6.5 to 8.5 pH	0.1 pH	±0.1 pH	@ 525 nm	phenol red	HI93710-01 100 tests
0 to 200 μg/L (as P)	1 μg/L	±5 µg/L ±5% of reading	@ 610 nm	ascorbic acid	HI774-25 25 tests
0.00 to 2.50 ma/L (ppm)	0.01 ma/l	±0.04 mg/L ±4% of reading	@ 610 nm	ascorbic acid	HI93713-01 100 tests
					HI93717-01 100 tests
	0.01 mg/L				HI93705-01 100 tests
			@ 466 nm	molybdosilicate	HI96770-01 100 tests
					HI93737-01 50 tests
					HI93751-01 100 tests
0.00 to 3.50 mg/L (as SDBS)	0.01 mg/L	±0.04 mg/L ±3% of reading	@ 610 nm	methylene blue	HI95769-01 100 tests
		±0.03 mg/L ±3% of reading	@ 575 nm	zincon	HI93731-01 100 tests
0.00 to 3.00 mg/L (as Zn)	0.01 ma/L	TO:000 HIND, E TO 10 OL LEGALILL			
0.00 to 3.00 mg/L (as Zn) HI83300-01 (115V) and HI83300-0	0.01 mg/L				
0.00 to 3.00 mg/L (as Zn) HI83300-01 (115V) and HI83300-0 USB to micro USB cable connector, po	2 (230V) is su	pplied with sample cuvettes and	d caps (4 ea.), c	loth for wiping cuvettes,	35732 32 100 (e313
	0 to 500 mg/L (as CaCO ₃) 0 to 300 mg/L (as CaCO ₃) 0.00 to 1.00 mg/L (as Al³+) 0.00 to 3.00 mg/L (as NH ₃ -N) 0.00 to 10.00 mg/L (as NH ₃ -N) 0.00 to 10.00 mg/L (as NH ₃ -N) 0.00 to 10.00 mg/L (as NH ₃ -N) 0.00 to 8.00 mg/L (as Re²) 0 to 400 mg/L (as Ca²+) 200 to 600 mg/L (as Ca²+) 0.00 to 2.00 mg/L (as ClO²) 0.00 to 2.00 mg/L (as ClO²) 0.00 to 5.00 mg/L (as ClO²) 0.00 to 5.00 mg/L (as Cl²) 0.10 to 500 mg/L (as Cr6+) 0 to 1000 µg/L (as Cr6+) 0 to 500 pc/U (Platinum Cobalt Units) 0.00 to 5.00 mg/L (as Cu²+) 0.00 to 5.00 mg/L (as Cu²+) 0.00 to 5.00 mg/L (as Cu²+) 0.00 to 5.00 mg/L (as CaCO₃) 0.00 to 2.00 mg/L (as CaCO₃) 0.00 to 2.00 mg/L (as CaCO₃) 0.00 to 2.00 mg/L (as CaCO₃) 0.00 to 5.00 mg/L (as CaCO₃) 0.00 to 5.00 mg/L (as CaCO₃) 0.00 to 5.00 mg/L (as Pe) 0.00 to 1.50 mg/L (as Re² 0.00 to 5.00 mg/L	0 to 500 mg/L (as CaCO ₃) 1 mg/L 0 to 300 mg/L (as CaCO ₃) 1 mg/L 0.00 to 1.00 mg/L (as Al³+) 0.01 mg/L 0.00 to 3.00 mg/L (as NH ₃ -N) 0.01 mg/L 0.00 to 10.00 mg/L (as NH ₃ -N) 0.1 mg/L 0.00 to 8.00 mg/L (as RP²) 0.01 mg/L 0.00 to 8.00 mg/L (as Ca²+) 1 mg/L 0.00 to 20.0 mg/L (as Cl²) 0.1 mg/L 0.00 to 2.00 mg/L (as Cl²) 0.01 mg/L 0.00 to 2.00 mg/L (as Cl²) 0.01 mg/L 0.00 to 2.00 mg/L (as Cl²) 0.01 mg/L 0.00 to 5.00 mg/L (as Cl²) 1 mg/L 0 to 500 mg/L (as Cr²+) 1 µg/L 0 to 500 mg/L (as Cr²+) 1 µg/L 0 to 500 mg/L (as Cr²+) 0.01 mg/L 0 to 500 mg/L (as Cr²+) 0.01 mg/L 0 to 500 mg/L (as CaCO³) 1 mg/L 0 to 500 mg/L (as CaCO³) 1 mg/L	0 to 500 mg/L (as CaCo ₃) 1 mg/L ±5 mg/L ±5% of reading 0 to 300 mg/L (as CaCo ₃) 1 mg/L ±5 mg/L ±5% of reading 0.00 to 1.00 mg/L (as NH₂N) 0.01 mg/L ±0.04 mg/L ±4% of reading 0.00 to 10.00 mg/L (as NH₂N) 0.01 mg/L ±0.05 mg/L ±5% of reading 0.00 to 10.00 mg/L (as NH₂N) 0.01 mg/L ±0.05 mg/L ±5% of reading 0.00 to 10.00 mg/L (as NH₂N) 0.01 mg/L ±0.08 mg/L ±5% of reading 0.00 to 10.00 mg/L (as CaP²) 1 mg/L ±0.08 mg/L ±5% of reading 2.00 to 60.00 mg/L (as CaP²) 0.01 mg/L ±0.05 mg/L ±5% of reading 2.00 to 2.00 mg/L (as Clo₂) 0.01 mg/L ±0.00 mg/L ±5% of reading 0.00 to 2.00 mg/L (as Clo₂) 0.01 mg/L ±0.00 mg/L ±5% of reading 0.00 to 5.00 mg/L (as Clo₂) 0.01 mg/L ±0.00 mg/L ±3% of reading 0.00 to 5.00 mg/L (as Clo₂) 0.01 mg/L ±0.03 mg/L ±3% of reading 0.00 to 5.00 mg/L (as Clo₂) 0.01 mg/L ±0.03 mg/L ±3% of reading 0.00 to 5.00 mg/L (as Clo₂) 0.01 mg/L ±0.03 mg/L ±3% of reading 0.00 to 5.00 mg/L (as Clo²) 1 mg/L ±5 ug/L ±4% of reading 0.00 to 5.00 mg/L (as Clo²) </td <td>Range Resolution Accuracy (± 25°C) with/activations/intersections/intersections/intersections/intersections/intersections/intersections/intersections/intersections/intersections/intersections/intersections/intersections/intersections/intersections/intersections/intersections/intersections/intersections/intersections/intersections/intersections/intersections/intersections/intersections/intersections/intersections/intersections/intersections/intersections/intersections/intersections/intersections/intersections/intersections/intersections/intersections/intersections/intersections/intersections/intersections/intersections/intersections/intersections/intersections/intersections/intersections/intersections/intersections/intersections/intersections/intersections/intersections/intersections/intersections/intersections/intersections/intersections/intersections/intersections/intersections/intersections/intersections/intersections/intersections/intersections/intersections/intersections/intersections/intersections/intersections/intersections/intersections/intersections/intersections/intersections/intersections/intersections/intersections/intersections/intersections/intersections/intersections/intersections/intersections/intersections/intersections/intersections/intersections/intersections/intersections/intersections/intersections/intersections/intersections/intersections/intersections/intersections/intersections/intersections/intersections/intersections/intersections/intersections/intersections/intersections/intersections/intersections/intersections/intersections/intersections/intersections/intersections/intersections/intersections/intersections/intersections/intersections/intersections/intersections/intersections/intersections/intersections/intersections/intersections/intersections/intersections/intersections/intersections/intersections/intersections/intersections/intersections/intersections/intersections/intersections/intersections/intersections/i</td> <td> Respot</td>	Range Resolution Accuracy (± 25°C) with/activations/intersections/intersections/intersections/intersections/intersections/intersections/intersections/intersections/intersections/intersections/intersections/intersections/intersections/intersections/intersections/intersections/intersections/intersections/intersections/intersections/intersections/intersections/intersections/intersections/intersections/intersections/intersections/intersections/intersections/intersections/intersections/intersections/intersections/intersections/intersections/intersections/intersections/intersections/intersections/intersections/intersections/intersections/intersections/intersections/intersections/intersections/intersections/intersections/intersections/intersections/intersections/intersections/intersections/intersections/intersections/intersections/intersections/intersections/intersections/intersections/intersections/intersections/intersections/intersections/intersections/intersections/intersections/intersections/intersections/intersections/intersections/intersections/intersections/intersections/intersections/intersections/intersections/intersections/intersections/intersections/intersections/intersections/intersections/intersections/intersections/intersections/intersections/intersections/intersections/intersections/intersections/intersections/intersections/intersections/intersections/intersections/intersections/intersections/intersections/intersections/intersections/intersections/intersections/intersections/intersections/intersections/intersections/intersections/intersections/intersections/intersections/intersections/intersections/intersections/intersections/intersections/intersections/intersections/intersections/intersections/intersections/intersections/intersections/intersections/intersections/intersections/intersections/intersections/intersections/intersections/intersections/intersections/intersections/intersections/intersections/intersections/intersections/i	Respot

LED (A nm)

