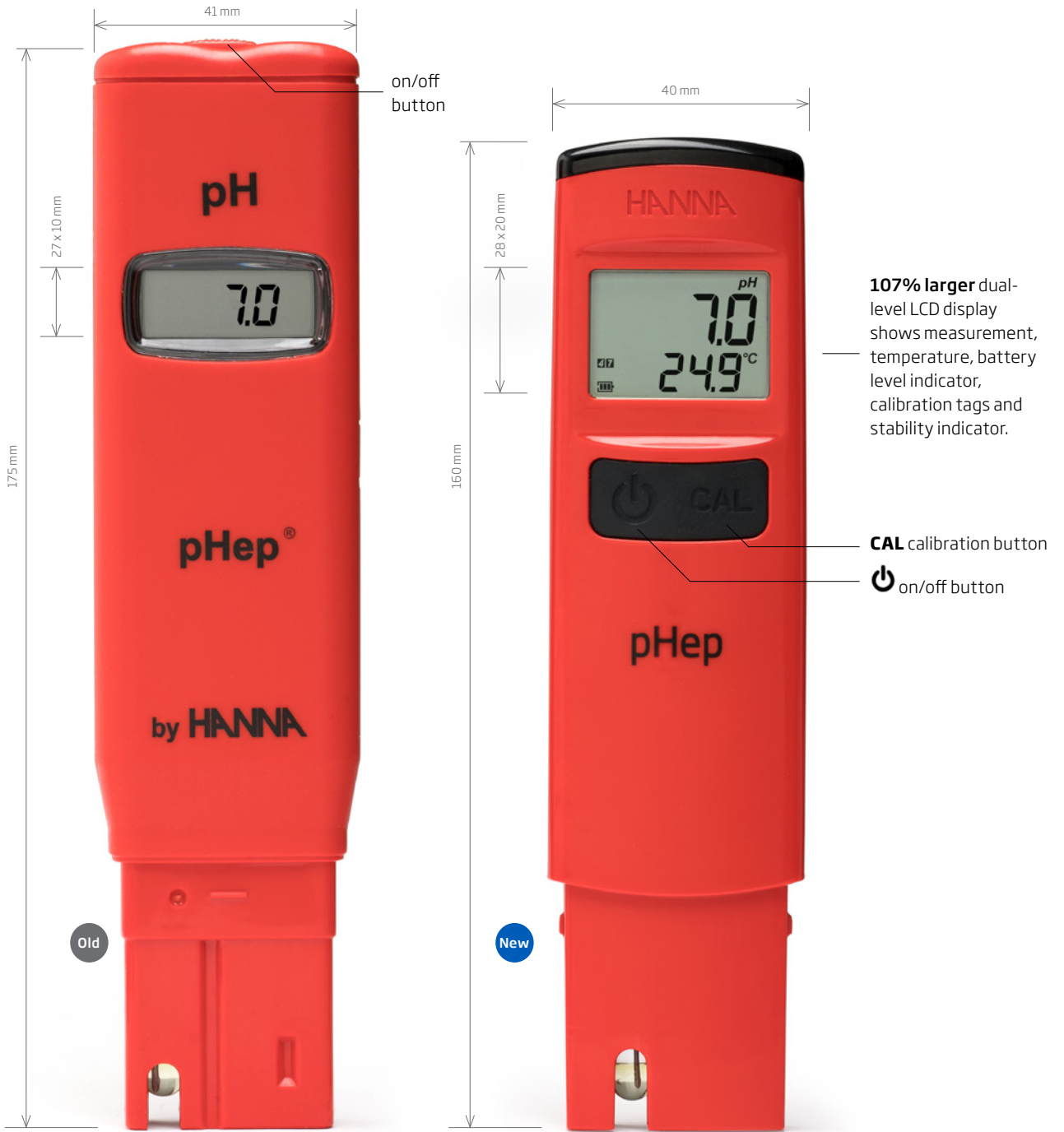




# New Testers Guide

Testers introduced in Q1 2017



### Feature Comparison

HI98107	Old	New
Automatic Calibration	No	Yes
Temperature compensation	No	Yes
Temperature readout	No	Yes
Stability indicator	No	Yes
Battery level indicator	No	Yes
Calibration tags	No	Yes
Automatic Shut-off	No	Yes



manual, two-point calibration through trimmers on the side

automatic two-point calibration

electrode and junction

electrode, temperature sensor and junction

rectangular cap

curved cap design that can be used to remove battery cover

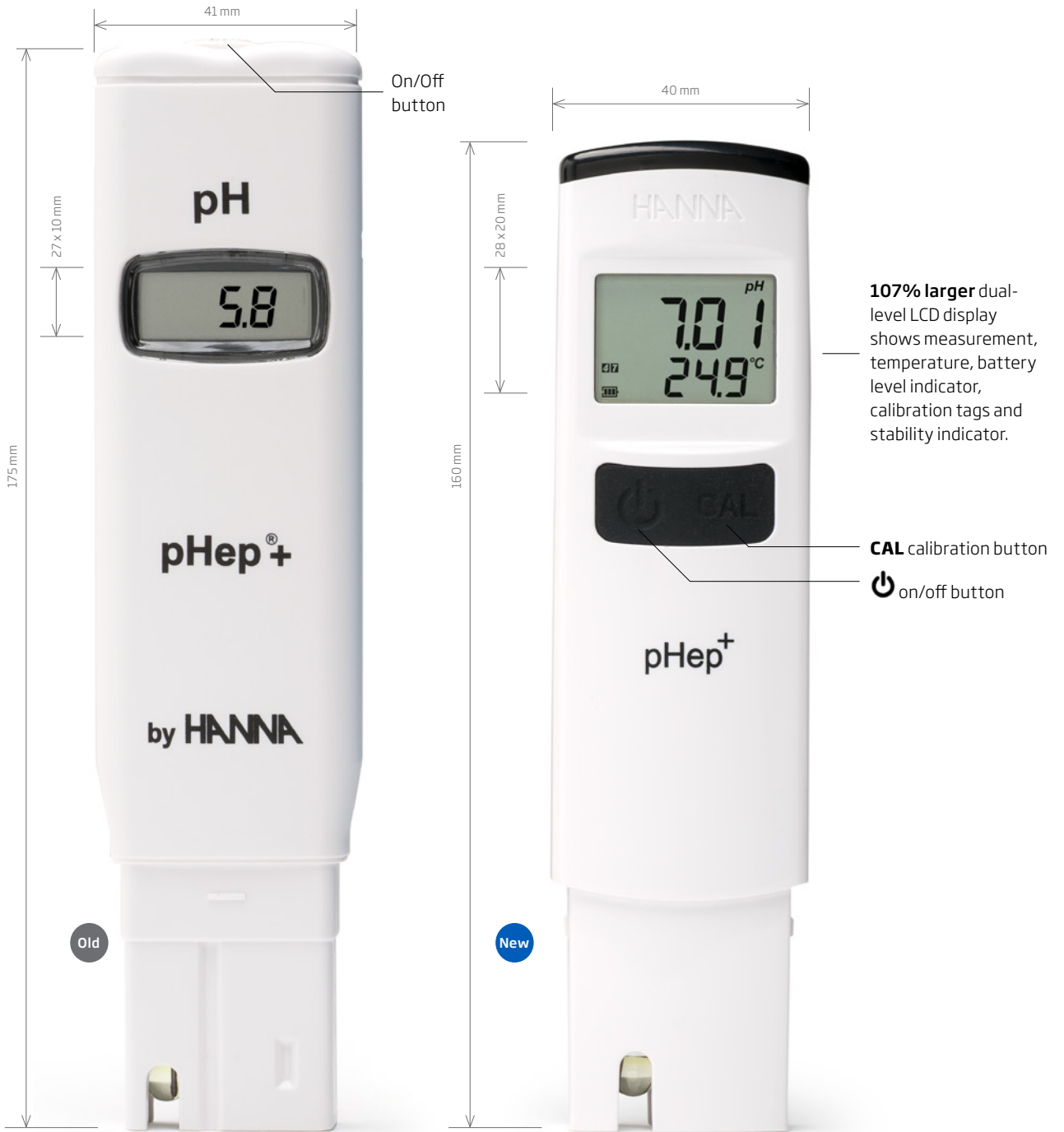
Specification Comparison

		Old HI98107 (pHep)	New HI98107 (pHep)
pH	Range	0.0 to 14.0 pH	0.0 to 14.0 pH
	Resolution	0.1 pH	0.1 pH
	Accuracy (@25°C/77°F)	±0.1 pH	±0.1 pH
	Calibration	manual, up to two-points	<b>automatic, one or two-points (pH 4.01, 7.01, 10.01)</b>
Temperature	Range	-	<b>0.0 to 50.0°C (32.0 to 122.0°F)</b>
	Resolution	-	<b>0.1°C (0.1°F)</b>
	Accuracy (@25°C/77°F)	-	<b>±0.5°C (±1.0°F)</b>
	Temperature Compensation	-	<b>automatic, 0 to 50°C</b>
Additional Specifications	Battery Type / Life	1.5V (4) / approximately 700 hours of continuous use	<b>CR2032 3V Li-ion / approximately 800 hours of continuous use</b>
	Auto-off	-	<b>8 minutes, 60 minutes, or can be disabled</b>
	Environment	0 to 50°C (32 to 122°F); RH 95% max	<b>0 to 50°C (32 to 122°F); RH 95% max</b>
	Dimensions	175 x 41 x 23 mm (6.9 x 1.6 x 0.9")	<b>160 x 40 x 17 mm (6.3 x 1.6 x 0.7")</b>
	Weight	95 g (3.4 oz.)	<b>65 g (2.3 oz.) without battery</b>



Ordering Information

HI98107 (pHep) is supplied with CR2032 battery, electrode cleaning solution sachet, pH 4.01 buffer solution sachet, pH 7.01 buffer solution sachet (2), storage/protection sleeve, instruction manual and quality certificate.



### Feature Comparison

HI98108	Old	New
0.01 pH Resolution	No	Yes
Automatic Calibration	No	Yes
Temperature compensation	Yes	Yes
Temperature readout	No	Yes
Stability indicator	No	Yes
Battery level indicator	No	Yes
Calibration tags	No	Yes
Automatic Shut-off	No	Yes



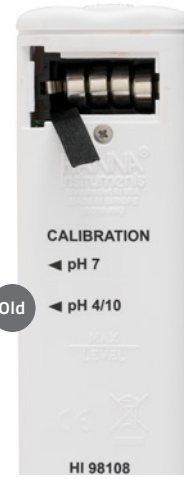
26% reduction in thickness



sliding battery cover



twisting battery cover with o-ring seal



1.5V batteries (4)



CR2032 Li-ion battery (1)



electrode, temperature sensor and junction



curved cap design that can be used to remove battery cover

manual, two-point calibration through trimmers on the side

automatic two-point calibration

rectangular cap

Specification Comparison

Old HI98108 (pHep+)

New HI98108 (pHep+)

	Old HI98108 (pHep+)	New HI98108 (pHep+)
pH	Range	0.0 to 14.0 pH
	Resolution	0.1 pH
	Accuracy (@25°C/77°F)	±0.1 pH
	Calibration	manual, up to two-points
Temperature	Range	0.0 to 50.0 °C (32.0 to 122.0 °F)
	Resolution	0.1°C (0.1°F)
	Accuracy (@25°C/77°F)	±0.5°C (±1.0°F)
Additional Specifications	Temperature Compensation	automatic, 0 to 50°C
	Battery Type / Life	1.5V (4) / approximately 200 hours of continuous use
	Auto-off	8 minutes, 60 minutes, or can be disabled
	Environment	0 to 50°C (32 to 122°F); RH 95% max
	Dimensions	175 x 41 x 23 mm (6.9 x 1.6 x 0.9")
	Weight	95 g (3.4 oz.)



Ordering Information

HI98108 (pHep+) is supplied with CR2032 battery, electrode cleaning solution sachet, pH 4.01 buffer solution sachet, pH 7.01 buffer solution sachet (2), storage/protection sleeve, instruction manual and quality certificate.

HI98103 Checker®



Feature Comparison

HI98103	Old	New
Automatic Calibration	No	Yes
0.01 pH Resolution	Yes	No
Stability indicator	No	Yes
Battery level indicator	No	Yes
Calibration tags	No	Yes
Automatic Shut-off	No	Yes





Old



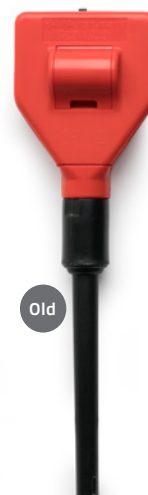
New



HI1270 pH probe



HI1271 pH probe



Old

latching battery cover



New

twisting battery cover with o-ring seal



Old

1.5V batteries (4)



New

CR2032 Li-ion battery (1)



Old



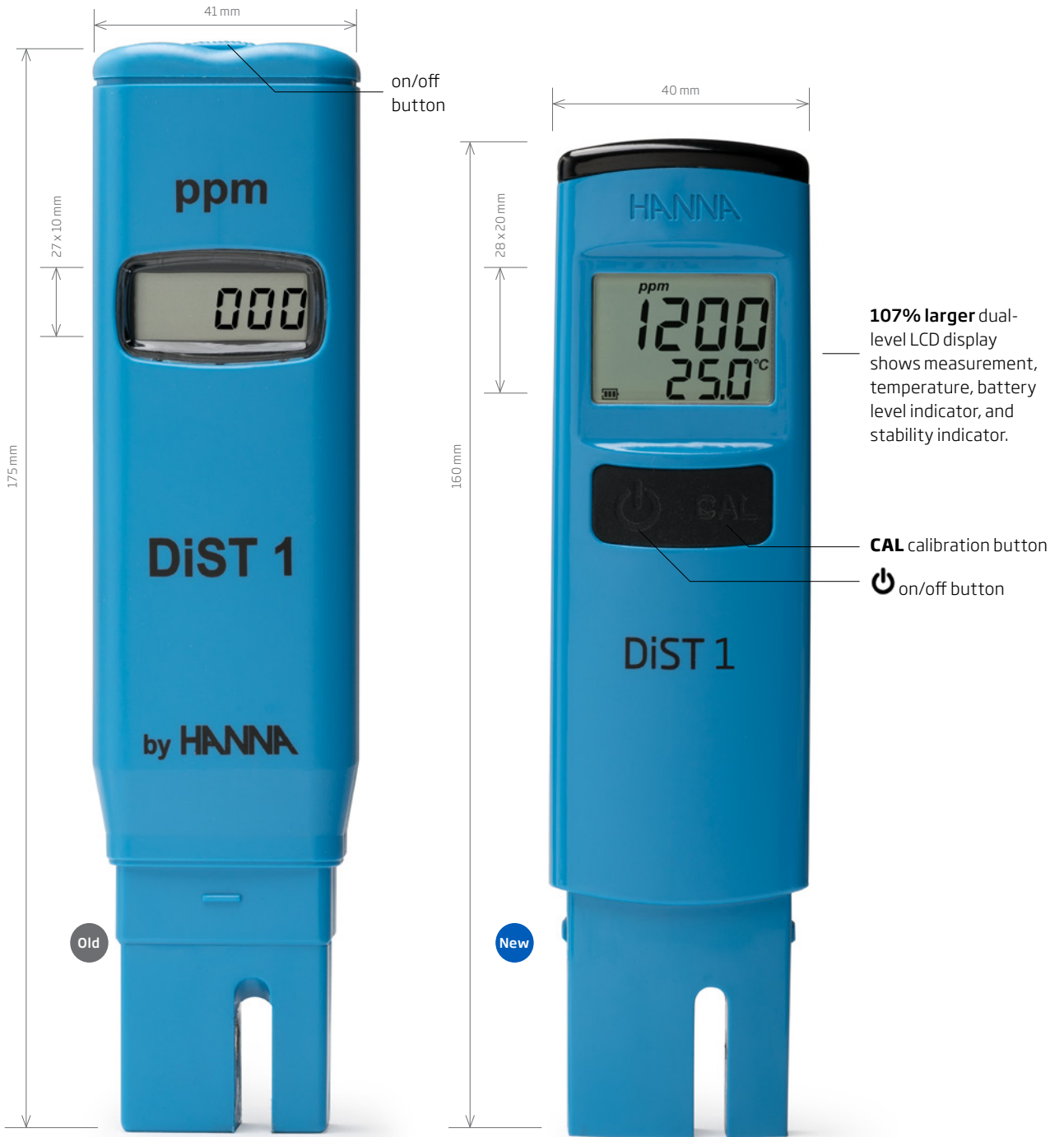
New

Specification Comparison

	Old HI98103 Checker	New HI98103 Checker
pH	Range	0.00 to 14.00 pH
	Resolution	0.01 pH
	Accuracy (@25°C/77°F)	±0.2 pH
	Calibration	manual, two-point
Additional Specifications	Electrode	HI1270 (included)
	Battery Type / Life	1.5V(2) / approximately 3000 hours of continuous use
	Auto-off	-
	Environment	0 to 50°C (32 to 122°F); RH 95% max
	Dimensions	50 x 171 x 25 mm (2 x 6.7 x 1")
	Weight	50 g (1.8 oz)

Ordering Information

HI98103 is supplied with HI1271 pH electrode, pH 4.01 buffer solution sachet (2), pH 7.01 buffer solution sachet (2), electrode cleaning solution sachet (2), battery, quality certificate, and instruction manual in a carrying case.



### Feature Comparison

HI98301-HI98302	Old	New
Automatic Calibration	No	<b>Yes</b>
Temperature compensation	Yes	Yes
Temperature readout	No	<b>Yes</b>
Stability indicator	No	<b>Yes</b>
Battery level indicator	No	<b>Yes</b>
Calibration tags	No	<b>Yes</b>
Automatic Shut-off	No	<b>Yes</b>





manual, one-point calibration through trimmers on the side

automatic one-point calibration

graphite electrode and temperature sensor

rectangular cap

curved cap design that can be used to remove battery cover

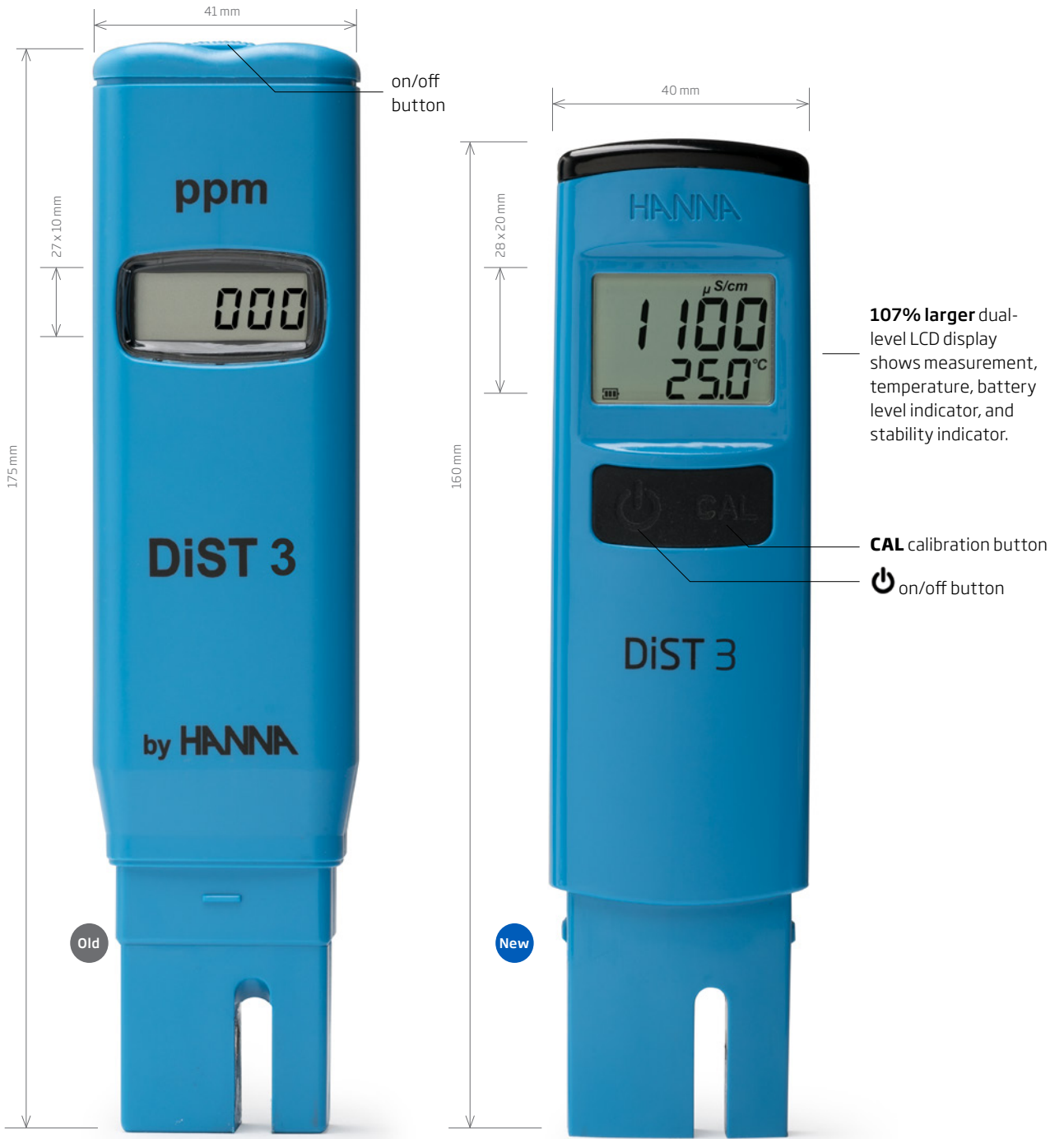
## TDS Testers

Specification Comparison	Old HI98301 (DiST 1)	Old HI98302 (DiST 2)	New HI98301 (DiST 1)	New HI98302 (DiST 2)	
TDS	Range	0 to 1999 ppm (mg/L)	0.00 to 10.00 ppt (g/L)	<b>0 to 2000 ppm (mg/L)</b> 0.00 to 10.00 ppt (g/L)	
	Resolution	1 ppm (mg/L)	0.01 ppt (g/L)	1 ppm (mg/L) 0.01 ppt (g/L)	
	Accuracy (@25°C/77°F)	±2% F.S.	±2% F.S.	±2% F.S.	±2% F.S.
	TDS Factor	0.5	0.5	0.5	0.5
Temperature	Range	-	-	<b>0.0 to 50.0°C (32.0 to 122.0°F)</b>	
	Resolution	-	-	<b>0.1°C (0.1°F)</b>	
	Accuracy (@25°C/77°F)	-	-	<b>±0.5°C (±1.0°F)</b>	
Additional Specifications	Calibration Solution	HI70032P: 1382 ppm	HI70038P: 6.44 ppt	HI70032P: 1382 ppm HI70038P: 6.44 ppt	
	Calibration	manual, one-point		<b>automatic, one-point</b>	
	Temperature Compensation	automatic, 0.0 to 50.0°C (32.0 to 122.0°F)		automatic, 0.0 to 50.0°C (32.0 to 122.0°F)	
	Battery Type / Life	1.5V (4) / approximately 200 hours of continuous use		<b>CR2032 3V Li-ion / approximately 250 hours of continuous use</b>	
	Auto-off	-		<b>8 minutes, 60 minutes, or can be disabled</b>	
	Environment	0 to 50°C (32 to 122°F); RH 95% max		0 to 50°C (32 to 122°F); RH 95% max	
	Dimensions	175 x 41 x 23 mm (6.9 x 1.6 x 0.9")		<b>160 x 40 x 17 mm (6.3 x 1.6 x 0.7")</b>	
	Weight	78 g (2.7 oz.)		<b>68 g (2.4 oz.) without battery</b>	



### Ordering Information

**HI98301** (DiST 1) is supplied with CR2032 battery, 1382 ppm calibration solution sachet (4), storage/protection sleeve, instruction manual and quality certificate.  
**HI98302** (DiST 2) is supplied with CR2032 battery, 6.44 ppt calibration solution sachet (4), storage/protection sleeve, instruction manual and quality certificate.



### Feature Comparison

HI98303-HI98304	Old	New
Automatic Calibration	No	<b>Yes</b>
Temperature compensation	Yes	Yes
Temperature readout	No	<b>Yes</b>
Stability indicator	No	<b>Yes</b>
Battery level indicator	No	<b>Yes</b>
Calibration tags	No	<b>Yes</b>
Automatic Shut-off	No	<b>Yes</b>



manual, one-point calibration through trimmers on the side

automatic one-point calibration

graphite electrode and temperature sensor

rectangular cap

curved cap design that can be used to remove battery cover

## Conductivity Testers

Specification Comparison	Old HI98303 (DiST 3)	Old HI98304 (DiST 4)	New HI98303 (DiST 3)	New HI98304 (DiST 4)	
EC	Range	0 to 1999 $\mu\text{S}/\text{cm}$	0.00 to 19.99 $\text{mS}/\text{cm}$	<b>0 to 2000 <math>\mu\text{S}/\text{cm}</math></b>	<b>0.00 to 20.00 <math>\text{mS}/\text{cm}</math></b>
	Resolution	1 $\mu\text{S}/\text{cm}$	0.01 $\text{mS}/\text{cm}$	1 $\mu\text{S}/\text{cm}$	0.01 $\text{mS}/\text{cm}$
	Accuracy (@25°C/77°F)	±2% F.S.	±2% F.S.	±2% F.S.	±2% F.S.
Temperature	Range	-	-	<b>0.0 to 50.0°C (32.0 to 122.0°F)</b>	-
	Resolution	-	-	<b>0.1°C (0.1°F)</b>	-
	Accuracy (@25°C/77°F)	-	-	<b>±0.5°C (±1.0°F)</b>	-
Additional Specifications	Calibration Solution	HI70031P: 1413 $\text{mS}/\text{cm}$	HI70030P: 12.88 $\text{mS}/\text{cm}$	HI70031P: 1413 $\text{mS}/\text{cm}$	HI70030P: 12.88 $\text{mS}/\text{cm}$
	Calibration	manual, one-point		<b>automatic, one-point</b>	
	Temperature Compensation	automatic, 0.0 to 50.0°C (32.0 to 122.0°F)		automatic, 0.0 to 50.0°C (32.0 to 122.0°F)	
	Battery Type / Life	1.5V (4) / approximately 200 hours of continuous use		<b>CR2032 3V Li-ion / approximately 250 hours of continuous use</b>	
	Auto-off	-		<b>8 minutes, 60 minutes, or can be disabled</b>	
	Environment	0 to 50°C (32 to 122°F); RH 95% max		0 to 50°C (32 to 122°F); RH 95% max	
	Dimensions	175 x 41 x 23 mm (6.9 x 1.6 x 0.9")		<b>160 x 40 x 17 mm (6.3 x 1.6 x 0.7")</b>	
	Weight	78 g (2.7 oz.)		<b>68 g (2.4 oz.) without battery</b>	



### Ordering Information

**HI98303** (DiST 3) is supplied with CR2032 battery, 1413  $\mu\text{S}/\text{cm}$  calibration solution sachet (4), storage/protection sleeve, instruction manual and quality certificate.

**HI98304** (DiST 4) is supplied with CR2032 battery, 12.88  $\text{mS}/\text{cm}$  calibration solution sachet (4), storage/protection sleeve, instruction manual and quality certificate.

