

YSI REPAIR CENTER

CALIBRATION VALUES

SONDE CALIBRATION RECORD

Model 6920V2 S/N 08H100353 Date 4-6-11

Customer National Park Service

Dissolved Oxygen – Before Lot#/SN: 08H101103

	Actual	Measured	Barometer	Delta	Charge
DO % Nit.	<u>0</u>	<u>1.6</u>	<u>720.7</u>	<u>1.6</u>	<u>N/A</u>
DO % Sat.	<u>100</u>	<u>98.4</u>	<u>720.7</u>	<u>1.6</u>	<u>N/A</u>

Dissolved Oxygen – After Lot#/SN: 08H101103

	Actual	Measured	Barometer	Delta	Charge
DO % Nit.	<u>0</u>	<u>1.8</u>	<u>760</u>	<u>1.8</u>	<u>N/A</u>
DO % Sat.	<u>100</u>	<u>100</u>	<u>760</u>	<u>0</u>	<u>N/A</u>

Conductivity – Before Lot# 08G100604

	Actual	Measured	Delta
Sp/ Conductance 10,000uS	<u>10mS</u>	<u>10.24</u>	<u>.24</u>

Conductivity – After Lot# 08G100604

	Actual	Measured	Delta
Sp/ Conductance 10,000uS	<u>10mS</u>	<u>10mS</u>	<u>0</u>

Temperature – Before Lot# 08G100604

	Actual	Measured	Delta
Celsius	<u>22.9</u>	<u>22.8</u>	<u>.1</u>

Temperature – After Lot# 08G100604

	Actual	Measured	Delta
Celsius	<u>22.2</u>	<u>22.2</u>	<u>0</u>

pH – Before Lot# 08G

	Actual	Measured	Delta	mV
4.0 Buffer	<u>4</u>	<u>4.20</u>	<u>.20</u>	<u>133.7</u>
7.0 Buffer	<u>7</u>	<u>7.29</u>	<u>.29</u>	<u>-39.9</u>
10.0 Buffer	<u>10</u>	<u>10.4</u>	<u>.4</u>	<u>-215.6</u>

pH – After Lot# 086

	Actual	Measured	Delta	mV
4.0 Buffer	<u>4</u>	<u>4</u>	<u>0</u>	<u>138.1</u>
7.0 Buffer	<u>7</u>	<u>7</u>	<u>0</u>	<u>-38.9</u>
10.0 Buffer	<u>10</u>	<u>10</u>	<u>0</u>	<u>-212.6</u>

ORP – Before Lot# _____

	Actual	Measured	Delta
Zobell	235	_____	_____

ORP – After Lot# _____

	Actual	Measured	Delta
Zobell	235	_____	_____

Depth - Before

	Actual	Measured	Delta
	_____	_____	_____

Depth - After

	Actual	Measured	Delta
	_____	_____	_____

Turbidity – Before SN: _____

	Actual	Measured	Delta
0NTU	_____	_____	_____
__ NTU	_____	_____	_____

Turbidity – After SN: _____

	Actual	Measured	Delta
0NTU	_____	_____	_____
__ NTU	_____	_____	_____

Chlorophyll – Before SN: _____

	Actual	Measured	Delta
0 ug/L	_____	_____	_____
__ ug/L	_____	_____	_____

Chlorophyll – After SN: _____

	Actual	Measured	Delta
0 ug/L	_____	_____	_____
__ ug/L	_____	_____	_____

NOTES:

Updated software to ver 3.10.
Replaced membrane on ROX DO probe.
Cert. of Analysis model # 3163 solution Lot # 116101895
was used to test cond. probe

This sonde identified by the above serial number has been calibrated and tested according to YSI specs on 4/6/11 by J. McCabe

Joe McCabe

Certificate of Analysis



YSI Incorporated

Yellow Springs Instrument Co., Yellow Springs, Ohio 45387 USA

Phone (937) 767-7241 (800) 765-4974 Fax (937) 767-9353

Product Model Number:

3163

**Conductivity Calibration
Solution**

Lot Number:

11B101895

Testing of Production Standard with a Metrology Calibrated Cell

**Nominal Conductivity
(microsiemens/cm):**

10K

**Specification Range,
(microsiemens/cm):**

9,975 - 10,025

**Test Result,
(microsiemens/cm):**

9985

Lot Result:

Accepted

Inspected by::

J. Jenkins

Date Tested:

01-Mar-11



A handwritten signature in blue ink that reads 'Lisa M. Abel'.

Lisa M. Abel
Director, Quality and Corporate
Responsibility



Certificate of Calibration and Traceability

We certify that this product has been tested and calibrated using standards whose calibrations are traceable to the National Institute of Standards and Technology (NIST) or are derived from values of natural physical constants.

As tested, it met or exceeded its current published specifications.

- Product meet specifications as received.
- Adjustment required to meet specifications.

Model no. sonde C/T Probe 6920U2/006560 Serial no. sonde C/T Probe 08H/00353/08G/00604

Calibrated by J. McCabe Order no. 634185
Jo Kelle

Received date 2-7-11 Calibration date 4-6-11

Test performed Test/cal Ambient temperature 23°C

Test equipment used for this calibration:

ID no.	Last cal. date	Cal. due date
<u>60212</u>	<u>2-15-11</u>	<u>5-15-11</u>
_____	_____	_____
_____	_____	_____
_____	_____	_____

Additional data attached. Number of pages 1

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As tested, it met or exceeded its current published specifications.

- Product meet specifications as received.
- Adjustment required to meet specifications.

Model no. sonde PH Probe 6920V2/00656! Serial no. sonde Ph probe 08H/00353/08G
 Calibrated by J. Mc Ghee Order no. 634185
for Keldre
 Received date 2-7-11 Calibration date 4-6-11
 Test performed Test/cal Ambient temperature 23°C

Test equipment used for this calibration:

ID no.	Last cal. date	Cal. due date
<u>Ph 7:3822-10K2S</u>	_____	_____
<u>Ph 4:3821-10K2R</u>	_____	_____
<u>Ph 10:3823-10K2T</u>	_____	_____
_____	_____	_____

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We certify that this product has been tested and calibrated using standards whose calibrations are traceable to the National Institute of Standards and Technology (NIST) or are derived from values of natural physical constants.

As tested, it met or exceeded its current published specifications.

- Product meet specifications as received.
- Adjustment required to meet specifications.

Model no. Sonde ROXDO 6920P/ROX 6150 Serial no. Sonde ROX DO 08H100353/08H101103
 Calibrated by J. McCabe for Metabo Order no. 634185
 Received date 2-7-11 Calibration date 4-6-11
 Test performed Test/cal Ambient temperature 23°C

Test equipment used for this calibration:

ID no.	Last cal. date	Cal. due date
<u>Tested and calibrated probe using 0% Nitrogen and 100% saturation water bath.</u>		
_____	_____	_____
_____	_____	_____

Additional data attached. Number of pages _____

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