

EXO Calibration Worksheet

IT'S YOUR WORLD. PROTECT IT.



This EXO Calibration Worksheet is designed to walk you through the calibration process for each smart sensor.

Please use the [EXO User Manual](#) and [EXO University](#) as resources for additional information and best practices.

Calibration Date	Date of Last Cal	Start Time	End Time	Performed By			
Sonde Model	Sonde Serial #	Sonde Firmware	Kor Version	Connectors Lubricated	Batteries Replaced		
				Yes <input type="checkbox"/> / No <input type="checkbox"/>	Date:		
Conductivity	Sensor Serial #	Sensor Firmware	Temp Check	Cond in Air		QC Score	
			Pass <input type="checkbox"/> / Fail <input type="checkbox"/>				
	Standard Value	Temperature	Pre Cal	Post Cal	Lot#	Expiration	
Cal Point 1							
Wiped Cell Constant		(Range: 0.469/cm ± 0.05)	Non-Wiped Cell Constant			(Range: 5.1/cm ± 10%)	
Notes:							
DO	Sensor Serial #	Sensor Firmware	Cap Serial #	Cap Replaced		QC Score	
				Date:			
	Barometric Pressure	Temperature	Pre Cal	Post Cal	Lot#	Expiration	
Cal Point 1							
Cal Point 2							
DO Gain		(Range: 0.85 - 1.15)					
Notes:							
pH	Sensor Serial #	Sensor Firmware	Module Lot Code		Module Replaced		QC Score
					Date:		
	Standard Value	Temperature	Pre Cal	Post Cal	mV	Lot#	Expiration
Cal Point 1							
Cal Point 2							
Cal Point 3							
	7 to 10 (negative Δ)	7 to 4 (positive Δ)					
Delta Slope			(Range: 165–180 ± 50 mV)				
mV per Decade		(Range: 55 - 60 pH/mV)					
Notes:							

ORP	Sensor Serial #	Sensor Firmware	Module Lot Code	Module Replaced		QC Score
				Date:		
	Standard Value*	Temperature	Pre Cal	Post Cal	Lot#	Expiration
Cal Point 1						
				<i>*Use solution's temperature chart to determine standard value.</i>		

Notes:

Turbidity	Sensor Serial #	Sensor Firmware				QC Score
	Standard Value	Temperature	Pre Cal	Post Cal	Lot#	Expiration
Cal Point 1						
Cal Point 2						
Cal Point 3						

Notes:

Total Algae	Sensor Serial #	Sensor Firmware	Standards Prepared		QC Score
			Date:		
	Temp-Compensated Standard Value (RFU or µg/L)*	Temperature	Pre Cal	Post Cal	
Cal Point 1					
Cal Point 2					
Cal Point 1					
Cal Point 2					

**Indicate PC or PE*

**Use the table in the EXO Manual to determine temp-compensated values. Indicate RFU or µg/L.*

Notes:

fDOM	Sensor Serial #	Sensor Firmware	Standards Prepared	QC Score
			Date:	
	Temp-Compensated Standard Value (RFU or QSU)*	Temperature	Pre Cal	Post Cal
Cal Point 1				
Cal Point 2				

**Use the table in the EXO Manual to determine temp-compensated values. Indicate RFU or QSU.*

Notes:

NitraLED	Sensor Serial #	Sensor Firmware				QC Score
	Standard Value	Temperature	Pre Cal	Post Cal	Lot#	Expiration
Cal Point 1						
Cal Point 2						
		Unfiltered Turbidity	Filtered Turbidity	LED1 Coeff	LED2 Coeff	NOM Coeff
Site-Specific Correction						
			(Range: <1 FNU)	(Range: -0.001 – -0.007)		(Range: -1.1 – -1.7)

Notes:

Depth	Depth Offset	Pre Cal	Post Cal	QC Score

Notes:

Nitrate ISE	Sensor Serial #	Sensor Firmware	Module Lot Code		Module Replaced		QC Score
					Date:		
	Standard Value	Temperature	Pre Cal	Post Cal	mV	Lot#	Expiration
Cal Point 1							
Cal Point 2							
Cal Point 3 (Temp Standard)							
	1 to 100 mg/L (negative Δ)						
Slope		(Range: 90–130 mV)					

Notes:

Ammonium ISE	Sensor Serial #	Sensor Firmware	Module Lot Code		Module Replaced		QC Score
					Date:		
	Standard Value	Temperature	Pre Cal	Post Cal	mV	Lot#	Expiration
Cal Point 1							
Cal Point 2							
Cal Point 3 (Temp Standard)							
	1 to 100 mg/L (positive Δ)						
Slope		(Range: 90–130 mV)					

Notes:

Chloride ISE	Sensor Serial #	Sensor Firmware	Module Lot Code	Module Replaced	Standards Prepared		QC Score
					Date:		
	Standard Value	Temperature	Pre Cal	Post Cal	mV	Lot#	Expiration
Cal Point 1							
Cal Point 2							
Cal Point 3 (Temp Standard)							
	10 to 1000 mg/L (negative Δ)						
Slope		(Range: 80–130 mV)					

Notes:

Rhodamine	Sensor Serial #	Sensor Firmware		Standards Prepared		QC Score
				Date:		
	Standard Value	Temperature	Pre Cal	Post Cal		
Cal Point 1						
Cal Point 2						
Cal Point 3						
Cal Point 4						

Notes:

Central Wiper	Sensor Serial #	Sensor Firmware	Wiper Brush Replaced		QC Score
			Date:		
Mode: Normal <input type="checkbox"/> / NitraLED <input type="checkbox"/>		Pre Cal	Post Cal		

Notes:

Calibrate Your Sensors

Your data is only as good as your last calibration. Consult the User Manual for full calibration procedures.

To reorder additional reagents, membranes and calibration solutions, you may reference the chart or link below:

pH Buffer: Available in different volumes

Conductivity Standard: Available in different volumes & concentrations

Turbidity Standard: Available in different concentrations

NitraLED Standard: Available in different concentrations

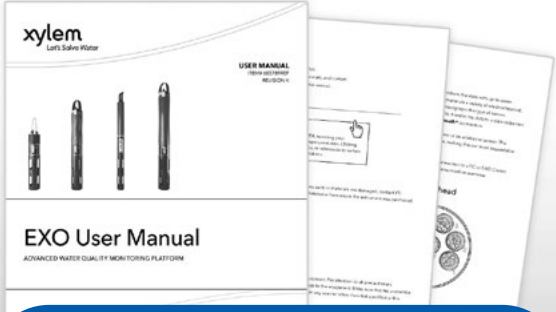
ORP Calibrator: Available in different volumes

Confidence Solution




Additional Resources

Please reference the [EXO User Manual](#) or browse [EXO University](#), our video library on topics such as calibration, maintenance, storage, and more!



The image shows the cover of the EXO User Manual, titled "xylem Let's Solve Water" and "EXO User Manual ADVANCED WATER QUALITY MONITORING PLATFORM". It also displays several pages of the manual with technical diagrams and text.

A blue rounded rectangular button with a white arrow icon pointing right and the text "EXO User Manual YSI.com/EXO" in white.

A video thumbnail showing a man in a grey polo shirt holding a blue water quality sensor. The EXO University logo is visible in the top right corner.

An orange rounded rectangular button with a white arrow icon pointing right and the text "EXO University YSI.com/EXOU" in white.

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