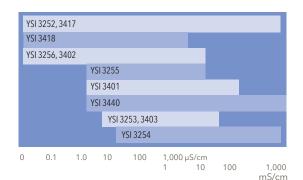






3200 series cells with built-in temperature sensors (see chart on back)



Conductivity Cell Selection Chart for the 3200 (For the 3100 see specific ranges on back)

YSI 3100 and 3200 Laboratory Benchtop Meters

Accurate Instruments for Conductivity Testing

YSI 3200 Conductivity System - Unmatched for UltraPure Water

- User-selected measurement mode: conductivity, temperature, resistivity, conductance, salinity, resistance, or total dissolved solids
- RESISTANCE RATIO TECHNOLOGYTM provides unmatched accuracy for ultrapure water
- Multipoint calibration; variety of measurements with the same cell
- High and low alarms for process applications
- Linear and nonlinear temperature compensation

YSI 3100 Conductivity - High Accuracy

The YSI 3100 provides high-accuracy measurements for basic conductivity. Includes direct-reading digital display, adjustable temperature coefficient, and automatic temperature compensation.

Conductivity Cells - Automatic Temperature Compensation

YSI 3200 Series Conductivity Cells have built-in thermistors, allowing automatic temperature compensation. All YSI cells are calibrated according to OIML (International Organization of Legal Metrology) recommendations 56 (Standard solutions reproducing the conductivity of electrolytes) and 68 (Calibration method for conductivity cells).

- Shipped with greater than 1% cell accuracy; includes certificate of traceability
- Can be used as a secondary lab standard
- Cells can be re-calibrated (adjusted) to NIST traceable standards;
 YSI offers this service with a certificate of calibration and traceability
- Black platinum electrodes are extremely stable and linear; can be replatinized using the instrument

Resistor Set Verifies Performance

The 3166 Resistor Set tight-tolerance calibrators are more precise than common resistors and can verify meter performance. Six resistors included.

NIST Traceable Calibrator Solutions for Highest Accuracy

To assure quality, YSI inspects them with reference to primary standard solutions according to OIML recommendation 56. Bottles include a table of corrections at temperatures between 20 and 30°C.

YSI 3161	1,000 μS/cm	±0.50% tolerance	1 quart
YSI 3163	10,000 μS/cm	±0.25% tolerance	1 quart
YSI 3165	100,000 μS/cm	±0.25% tolerance	1 quart
YSI 3167	1,000 µS/cm	±1.0% tolerance	8 pints
YSI 3168	10,000 μS/cm	±1.0% tolerance	8 pints
YSI 3169	50,000 µS/cm	±1.0% tolerance	8 pints

	3200 Instru	ument Spec	ificatic	ns	3100 lns	trume	nt Spec	ificat	ions	
Technology	Resistance Ratio				Forced Current					
Modes	Conductivity Resistivity Salinity Temperature	Conductance Resistance Total Dissolved Soli	ds Conductar	ice	Conductivity Salinity Conductance Temperature					
Conductance	Range 0 to $0.9999~\mu S$ 0.950 to $9.999~\mu S$ 9.50 to $99.99~\mu S$ 95.0 to $99.99~\mu S$ 95.0 to $99.99~\mu S$ 95.0 to $99.99~\mu S$ 9.50 to $99.99~\mu S$ 9.50 to $99.99~\mu S$ 95.0 to $99.99~\mu S$ 95.0 to $99.90~\mu S$ 95.0 to $99.90~\mu S$ 95.0 to $99.90~\mu S$	Accuracy $\pm 0.30\%$ full scale $\pm 0.20\%$ full scale $\pm 0.10\%$ full scale $\pm 0.10\%$ full scale $\pm 0.10\%$ full scale $\pm 0.10\%$ full scale $\pm 0.30\%$ full scale $\pm 1.0\%$ full scale	Resolution 0.0001 μ S 0.001 μ S 0.01 μ S 0.1 μ S 1 μ S 0.01 mS 0.1 mS 0.01 mS		Range (Conducti 0 to 49.99 µS/cm 0 to 499.9 µS/cm 0 to 499.9 mS/cr 0 to 49.99 mS/cr 1 · Do not use K = 10 or 2 · Requires K = 10 cn 3 · Requires K = 10 cn	n ¹ n n m ² m ³ cm ⁻¹ cell.	Accuracy ±0.50% full so	cale cale cale cale	Resolution 0.01 µS/cm 0.1 µS/cm 1 µS/cm 0.01 mS/cm 0.1 mS/cm	
Resistance	Range 0 to 9.999 0 to 99.99 0 to 999.9 0 to 9.999 k 0 to 99.99 k 100.0 to 999.9 k 1.00 to 9.99 M 10.0 to 29.9 M	Accuracy $\pm 0.2\%$ full scale $\pm 0.1\%$ full scale $\pm 0.1\%$ full scale $\pm 0.1\%$ full scale $\pm 0.1\%$ full scale $\pm 0.2\%$ full scale $\pm 0.5\%$ full scale $\pm 1\%$ full scale	Resolution 0.001 0.01 0.1 0.001 k 0.01 k 0.1 k 0.01 M 0.1 M							
Salinity	0 to 80 ppt (NaCl)	±0.1 ppt	0.1 ppt		0 to 80 ppt		2% or ±0.1 pp	t	0.1 ppt	
Temperature	-5 to +100°C	±0.1°C	0.01°C		-5 to +95°C		±0.1°C + 1 lsc	ł	0.1°C	
TDS	0 to 19,999 mg/L	±0.50%	1 mg/L							
Temperature Co Method Reference Ten Temperature Cell Configura Data Storage Cell Constant Cell Calibratic Output Alarm & Clock Display Cell Connecto Platinizing Power Approvals Environment	nperature Coefficient ation Storage on	linear, nonlinear 0 to 100°C 0 to 10%, nonlinear 6 configurations 100 points 0.001 to 100 cm ⁻¹ up to 5 points RS232 yes Graphic LCD 7-pin mini DIN included 115, 220 VAC UL, CSA, CE 95% RH non-conde	nsing		linear 15 to 25°C 0 to 4% na na 0.01, 0.1, 1, 1, 10 c single point na na LCD 7-pin mini DIN included 115, 220 VAC UL, CSA, CE 95% RH non-con					
Cells with	built-in tem		ensors Cell		Overall	Max	Chambar	Chamba		
Model	cgs Cell Type		Constant	Material	Length	O.D.	Chamber I.D.	Chambe Depth	Volume	
A 3252	dip		100/m	ABS plastic	146 mm	13 mm	10 mm	20 mm		
B 3253 C 3254	dip, micro fill		100/m 100/m	Pyrex 7740 Pyrex 7740	178 mm 135 mm	13 mm 19 mm	10 mm 11 mm	51 mm 83 mm	5 mL	
D 3255	flow		10/m	Pyrex 7740	146 mm	25 mm	21 mm	76 mm	30 mL	
E 3256	dip	0.1/cm	10/m	Pyrex 7740	159 mm	25 mm	21 mm	52 mm		
Cells without built-in temperature sensors*										
	cgs	S.I. (ell		Overall	Max	Chamber	Chamber		
Model	Cell Type		Constant	Material	Length	0.D.	I.D.	Depth 74 mm	Volume	
F 3401 G 3402	dip dip		00/m 0/m	Pyrex 7740 Pyrex 7740	191 mm 159 mm	25 mm 25 mm	21 mm 21 mm	76 mm 52 mm		
H 3403	dip		00/m	Pyrex 7740	178 mm	13 mm	10 mm	51 mm		
I 3417	dip	1.0/cm 1	00/m	ABS plastic	146 mm	13 mm	10 mm	20 mm		
I 3418	dip		0/m	ABS plastic	159 mm	13 mm	10 mm	30 mm		
J 3440	dip 32 Cell Adaptor for use with Y		000/m	Pyrex 7740	203 mm	13 mm	2 mm	86 mm		

^{*}Requires a YSI 3232 Cell Adaptor for use with YSI 3100 and 3200 Conductivity Instruments. For automatic temperature compensation, use a YSI 3220 on the 3200 or a temperature probe.



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