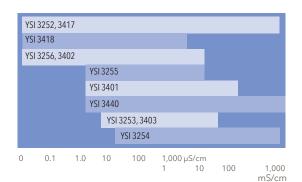






3200 series cells with built-in temperature sensors (see chart on back)



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 TECHNOLOGY[™] 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 uS/cm	±1.0% tolerance	8 pints

	3200 Instru	ıment Spec	ificatio	ns	3100 Inst	rume	nt Speci <u>f</u> i	icat	ions	
Technology	Resistance Ratio				Forced Current					
Modes	Conductivity Resistivity Salinity Temperature	Conductance Resistance Total Dissolved Solic	ls Conductan	ce	Conductivity Salinity Conductance Temperature					
Conductance	Range $0 to 0.9999 \ \mu S \\ 0.950 to 9.999 \ \mu S \\ 9.50 to 99.99 \ \mu S \\ 95.0 to 999.9 \ \mu S \\ 950 to 999.9 \ \mu S \\ 9.50 to 999.9 \ m S \\ 95.0 to 999.9 \ m S \\ 0.95 to 3.00 \ S$	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 $0.0001\mu\text{S}$ $0.001\mu\text{S}$ $0.001\mu\text{S}$ $0.01\mu\text{S}$ $0.1\mu\text{S}$ $1\mu\text{S}$ 0.01mS 0.01mS		Range (Conductiv 0 to 49.99 µS/cm ¹ 0 to 499.9 µS/cm 0 to 4999 µS/cm 0 to 49.99 mS/cm 1 · Do not use K = 10 cm ¹ 2 · Requires K = 10 cm ¹ 3 · Requires K = 10 cm ¹	2 3 n ⁻¹ cell.	Accuracy ±0.50% full scalus ±0.5	e e e	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 99.99 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 ppt		0.1 ppt	
Temperature	-5 to +100°C	±0.1°C	0.01°C		-5 to +95°C		±0.1°C + 1 lsd		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 Calibratio Output Alarm & Clock Display Cell Connecto Platinizing Power Approvals Environment	nperature Coefficient Ition Storage n	linear, nonlinear 0 to 100°C 0 to 100°C, 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-conder	nsing		linear 15 to 25°C 0 to 4% na na 0.01, 0.1, 1, 10 cm single point na na LCD 7-pin mini DIN included 115, 220 VAC UL, CSA, CE 95% RH non-cond					
Cells with	built-in tem	nperature se	ensors Tell		Overall	Max	Chamber C	Chambei		
Model	cgs Cell Type		constant	Material	Overall Length	Max O.D.		.namber Depth	Volume	
A 3252	dip	1.0/cm 1	00/m	ABS plastic	146 mm	13 mm	10 mm 2	20 mm		
B 3253 C 3254	dip, micro fill		00/m 00/m	Pyrex 7740 Pyrex 7740	178 mm 135 mm	13 mm 19 mm		31 mm 33 mm	5 mL	
D 3255	flow		00/m 0/m	Pyrex 7740 Pyrex 7740	146 mm	25 mm		6 mm	30 mL	
E 3256	dip		0/m	Pyrex 7740	159 mm	25 mm		2 mm		
Cells with	out built-in	temperatur	e sens	ors* _						
	cgs		ell		Overall	Max	Chamber C	<u>hamber</u>		
Model	Cell Type		onstant	Material	Length	0.D.		epth	Volume	
F 3401 G 3402	dip		00/m	Pyrex 7740 Pyrex 7740	191 mm 159 mm	25 mm 25 mm		6 mm 2 mm		
H 3403	dip dip		0/m 00/m	Pyrex 7740 Pyrex 7740	159 mm 178 mm	25 mm 13 mm		2 mm 1 mm		
I 3417	dip		00/m	ABS plastic	146 mm	13 mm		0 mm		
I 3418	dip		0/m	ABS plastic	159 mm	13 mm		0 mm		
J 3440	dip	10/cm 1 SI 3100 and 3200 Conductiv	000/m	Pyrex 7740	203 mm	13 mm		6 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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