

Model 2819-2823

Ordering Notes

- 1) Alternate wetted materials and sensor lengths are available through special order.
- 2) Cable lengths of up to 30m (100 ft) are available - consult factory.
- 3) Use PN 3-2820.390 or 3-2820.391 for a submersible threaded connection.
- 4) Use the Conductivity Certification Tool (PN 3-2830) for NIST traceable conductivity values per USP requirements. The tool is compatible with the 8850, 8860, and 5800CR instruments.

Example of NIST Traceability Certificate

CERTIFICATE	
Date:	November 10, 2003
Sensor Part Number:	3-2819-T1C
Sensor Serial Number:	980159-04
Sensor Cell Constant:	0.0102
Temp. Element Offset:	0.1 °C
Measured at:	24.8 °C
NIST Certified	

Application Tips

- Liquid levels must be high enough to cover orifice on sensor body.
- Threads on models 2819, 2820, 2821, and 2823 can be reversed in the field.
- Use Model 2819 with the 2850-6x/8900 for low conductivity applications requiring multiple measurement points.
- Install sensors in an area that will remain free of air bubbles and sediment build-up.
- Conductivity measurements are affected if electrodes are coated by process substances.

Please refer to Wiring, Installation, and Accessories sections for more information.

Ordering Information

Sensor Part Number	
3-2819	0.01 cm-1 cell constant
3-2820	0.1 cm-1 cell constant
3-2821	1.0 cm-1 cell constant
3-2822	10 cm-1 cell constant
3-2823	20 cm-1 cell constant
Sensor Material and Mounting - Choose One	
1	316 SS electrode with ¾ in. reversible threads (except 2822 which has fixed ¾ in. threads) for in-line or submersible mounting
S1*	316 SS electrode with Sanitary Tri-clamp flange; for insertion into 1 to 1½ in. tees
S2*	316 SS electrode with Sanitary Tri-clamp flange; for insertion into 2 inch tees
T1*	Titanium electrode with Sanitary Tri-clamp flange; for insertion into 1 to 1½ in. tees
T2*	Titanium electrode with Sanitary Tri-clamp flange; for insertion into 2 inch tees
NIST Traceable Certificate - Optional	
C*	NIST Certified
Special Order Options	
	High Temperature and Pressure options available by special request - consult factory
	Wetted materials (Hastelloy-C and Monel) and sensor lengths are available by special request - consult factory
	Cable length extensions of up to 30 m (100 ft) are available. For resistivity measurements above 10 MΩ, the maximum cable length is 7.6 m (25 ft) - consult factory
	Wet-Tap, ball valve retractable sensor for long insertion length are available by special request - consult factory
3-2820	-S1 C Example Part Number

*Available for 0.01 cm-1, 0.1 cm-1, and 1.0 cm-1 cells only

Mfr. Part No.	Code	Mfr. Part No.	Code
3-2819-1	198 844 010	3-2820-T1	159 000 624
3-2819-S1	159 000 085	3-2820-T2	159 000 625
3-2819-S1C	159 000 087	3-2821-1	198 844 001
3-2819-S2	159 000 086	3-2821-S1	159 000 093
3-2819-S2C	159 000 088	3-2821-S1C	159 000 095
3-2819-T1	159 000 081	3-2821-S2	159 000 094
3-2819-T1C	159 000 083	3-2821-S2C	159 000 096
3-2819-T2	159 000 082	3-2821-T1	159 000 626
3-2819-T2C	159 000 084	3-2821-T2	159 000 627
3-2820-1	198 844 000	3-2822-1	198 844 002
3-2820-S1	159 000 089	3-2823-1	198 844 003
3-2820-S1C	159 000 091		
3-2820-S2	159 000 090		
3-2820-S2C	159 000 092		

Accessories and Replacement Parts

Mfr. Part No.	Code	Description
3-2820.390	198 840 223	¾ in. NPT Fitting, 316 SS for use with 2822-1 for submersible mounting
3-2820.391	198 840 221	¾ in. NPT Fitting, Polypro replacement for 2819-1, 2820-1 or 2821-1
3-2820.392	198 840 222	½ in. NPT Fitting, 316 SS for use with 2819-1 or 2821
3-2830	159 000 628	Conductivity Certification Tool; simulates 1 µS/cm and 2.5 µS/cm
5523-0322	159 000 761	Sensor cable (per ft), 3 cond. plus shield, 22 AWG (for cable extension through a junction box for the following sensors: 3-2820, 3-2821, 3-2822, 3-2823)
3-8050-1	159 000 753	Universal mount junction box