

**Model 2839-2842**

**Ordering Notes**

- 1) Cell constants can be traceable to NIST and certified within ±1% of value (contact factory).
- 2) The Conductivity Certification tools are compatible with the following Signet Instrument:  
 5800CR            8860  
 8850                8900
- 3) Threaded sensors can be directly mounted to an instrument by doing the following:
  - Order integral adapter 3-8052 to connect the sensor to an field mount transmitter.
  - Order a field mount transmitter designed for integral mounting: 3-8850-1, 3-8850-2, 3-8850-3.
- 4) The sensor cable can be extended up to 30 m (100 ft) for 0.1, 1.0 and 10.0 cells only.

**Ordering Information**

| Sensor Part Number  |  |
|---|--|
| <b>3-2839</b>   | 0.01 cm-1 cell constant  |
| <b>3-2840</b>   | 0.1 cm-1 cell constant   |
| <b>3-2841</b>   | 1.0 cm-1 cell constant   |
| <b>3-2842</b>   | 10 cm-1 cell constant  |
| Sensor Style - Choose One   |  |
| <b>-1</b>   | Dual threaded connection with 4.6 m (15 ft) cable; for use with Models 8850, 8860, 5800CR, and 5900 Conductivity Instruments |
| Thread Size(s) - Choose One   |  |
| <b>-</b>  | ¾ inch NPT   |
| <b>D</b>  | ISO 7/1-R 3/4  |
| Special Order Options   |  |
| NIST Traceable and certified within +/- 1% of the value (contact 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 |  |
| <b>3-2840</b>   | <b>-1 D Example Part Number</b>  |

| Mfr. Part No. | Code               | Mfr. Part No. | Code               |
|---------------|--------------------|---------------|--------------------|
| 3-2839-1      | <b>159 000 921</b> | 3-2841-1      | <b>159 000 790</b> |
| 3-2839-1D     | <b>159 000 923</b> | 3-2841-1D     | <b>159 000 792</b> |
| 3-2840-1      | <b>159 000 786</b> | 3-2842-1      | <b>159 000 794</b> |
| 3-2840-1D     | <b>159 000 788</b> | 3-2842-1D     | <b>159 000 796</b> |

Example of NIST Traceability Certificate

| CERTIFICATE           |                   |
|-----------------------|-------------------|
| Date:                 | November 10, 2003 |
| Sensor Part Number:   | 3-2839-1          |
| Sensor Serial Number: | 980159-04         |
| Sensor Cell Constant: | 0.0098            |
| Temp. Element Offset: | 0.1°C             |
| Measured at:          | 24.8°C            |
| <b>NIST Certified</b> |                   |

| Application Tips   |
|--|
| <ul style="list-style-type: none"> <li>• Liquid levels must be high enough to cover orifice on sensor body.</li> <li>• Install sensors in an area that will remain free of air bubbles and sediment build-up.</li> <li>• Conductivity measurements are affected if electrodes are coated by process substances.</li> <li>• Use Model 2839 with the 2850/8900 for low conductivity applications requiring multiple measuring points.</li> </ul> |

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

**Accessories and Replacement Parts**

| Mfr. Part No. | Code               | Description   |
|---------------|--------------------|---|
| 3-2830        | <b>159 000 628</b> | Conductivity certification tool; simulates 1 µS/cm and 2.5 µS/cm  |
| 3-2842.390    | <b>159 000 925</b> | 2842 replacement insulator, PEEK™ with FPM O-ring   |
| 3-8052        | <b>159 000 188</b> | ¾ in. integral mounting kit   |
| 5523-0322     | <b>159 000 761</b> | Sensor cable (per ft), 3 cond. plus shield, 22 AWG (for cable extension through a junction box for the following sensors: 3-2840, 3-2841, 3-2842) |
| 3-8050-1      | <b>159 000 753</b> | Universal mount junction box  |