

ELECTRICAL RESISTANCE (ER) DUAL SENSOR

ER with Temperature



Features

- **Simplifies Corrosion/Temperature Correlation**
- **Utilizes Standard 6 PIN Connector/No Adaptors Required**
- **Provides Stable and Accurate measurements**
- **Suitable for Local and Remote Monitoring**
- **Available in Several Probe Models**
- **Newer Instruments Measure Both Parameters**
- **Operating Range -40°F to +500°F (-40°C to +260°C)**

Temperature is one of the most important controllable factors affecting corrosion rate, particularly in refineries, chemical and petrochemical process plants. A rule of thumb is that corrosion rates double for each 10 degrees C temperature rise. The ability to track temperature and corrosion rate simultaneously is a powerful tool in the corrosion management of such plants.

The Dual Sensor patented measurement electrical resistance probe series allows metal loss and temperature information to be collected simply at the corrosion monitoring location where it is important. By using a Dual Sensor ER probe, you won't have to spend time searching for a separate temperature measurement that may not even exist for the area you want to monitor.

The temperature measurement has been incorporated into the probes using the same standard 6 pin connectors of the standard ER probe range - no external separate connectors or special adaptors with additional pins are required. The originality of the design permits both local and remote monitoring to be accomplished with accuracy.

ELECTRICAL RESISTANCE (ER) DUAL SENSOR PROBES

The Dual Sensor combination models are distinguished from the standard ER probes by adding a "T" after the series number. Apart from adding a "T" to the series number, the remainder of the model number is exactly the same as the standard ER probe (refer to applicable data sheets for ordering by model number).

RCS has the three instruments which read Dual Sensor ER probes, the Model

With an adaptor, (Cosasco Part No. 748071), Dual Sensor ER probes may be read with any 100 ohm Platinum RTD Thermometer ($\alpha = 0.00385$), such as the Omega Model 868, 869 or equivalent.

Temperature Sensor Specification:

- 100 ohm platinum resistance temperature sensor (RTD).

Cosasco
11841 East Smith Avenue
Santa Fe Springs, CA 90670, USA
Tel: 1-562-949-0123
Email: sales@cosasco.com
Web Site: www.cosasco.com

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Rohrbach Cosasco Systems Corrosion Monitoring Equipment is manufactured and sold under one or more of the following US Patents: 4138878, 4238298, 4338563, 4514681, 4537071, 4587479, 4605626, 4625557, 4755744, 4839580, 4841787, 4882537 5243297

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Certificate No. FM 10694