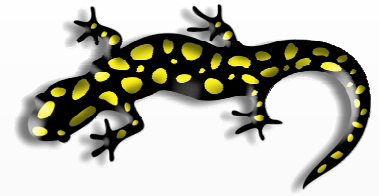


# Electrical Conductivity / Temperature



salamander

The Electrical Conductivity (EC) of a solution is a measure of the ability of the solution to conduct electricity. When ions are present, the EC of the solution increases. If no salts are present, EC is low, indicating that the solution does not conduct electricity well. EC is expressed in units of Siemens. The EC indicates the presence or absence of salts, but does not indicate which salts might be present. EC can therefore be used as a surrogate measure for the dissolved load within a solution.

<b>Conductivity</b>	<b>0-2,500<math>\mu</math>S</b>	<b>0-10,000<math>\mu</math>S</b>	<b>0-80,000<math>\mu</math>S</b>	<b>Temperature</b>	
<b>Accuracy</b>	+/-2% rdg, +/-5 $\mu$ S	+/-2% rdg, +/-10 $\mu$ S	+/-2% rdg, +/- 80 $\mu$ S	<b>Accuracy</b>	+/- 0.25 °C
<b>Repeatability</b>	+/- 1% rdg, +/-5 $\mu$ S	+/- 1% rdg, +/-10 $\mu$ S	+/- 1% rdg, +/-80 $\mu$ S	<b>Repeatability</b>	+/- 0.1 °C
<b>Resolution</b>	0.5 $\mu$ S	2 $\mu$ S	16 $\mu$ S	<b>Resolution</b>	0.1 °C
<b>Response</b>	4 sec	4 sec	4 sec	<b>Response</b>	30 sec
<b>Type</b>	4 – Pole Temperature compensation 0 – 30 °C	4 – Pole Temperature compensation 0 – 30 °C	4 – Pole Temperature compensation 0 – 30 °C	<b>Type</b>	PT100
				<b>Range</b>	-20°C to +60 °C

- High stability
- 4 Pole - Resistant to bio fouling
- Opto Isolation (no interference)
- Linear response
- Easy calibration (2 point calibration)
- Internal PT100
- Tough Acetal case



Description	Units	Code	Range	Cable length (m) std	Termination (CFE, WP)
Conductivity electrode with internal PT100, temperature compensation and opto isolation.	mm	EC/T/	----	5/	WP

Accessories: Calibration solutions	Volume	Code
443 $\mu$ S	500 ml	EC/STD/443
1413 $\mu$ S	500 ml	EC/STD/1413
12,880 $\mu$ S	500 ml	EC/STD/12.88
80,000 $\mu$ S	500 ml	EC/STD/80

Example

code: EC/T/5/WP

Conductivity sensor with temperature, 5 metres cable terminating in a waterproof connector.

Connector options WP (waterproof 5 pin Tajimi) or CFE (Clean finished ends for screw terminals)

**For further information please contact: Salamander sales**

**Tel: 0845 053 1234**

**Fax: 0845 053 1235**

**www.salamander-group.co.uk**

**sales@salamander-group.co.uk**