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Quick Start Guide
MS-00825-0100-3490, Rev AB
February 2025

Rosemount 490A

Optical Dissolved Oxygen Sensor



ROSEMOUNT™


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Safety messages

⚠ WARNING

Physical access

Unauthorized personnel may potentially cause significant damage to and/or misconfiguration of end users' equipment. This could be intentional or unintentional and needs to be protected against.

Physical security is an important part of any security program and fundamental in protecting your system. Restrict physical access by unauthorized personnel to protect end users' assets. This is true for all systems used within the facility.

NOTICE

The Rosemount 490A has not been accepted, certified, listed, or labeled by any third-party certification agency for use in North America and is not included as part of the Rosemount 1058 approvals.

Contents

Unpack.....	2
Assemble the probe.....	2
Install the probe.....	3
Wiring the probe.....	4
Declaration of Conformity.....	4
China RoHS table.....	5

1 Unpack

Procedure

Remove the probe and sensing cap from the box.

The sensing cap is shipped in a small plastic cylinder inserted in a hole in the internal cardboard packaging.

2 Assemble the probe

Procedure

1. Unscrew the guard from the probe and remove the red protective dust cap.
Save the dust cap for later use. Make sure the O-ring grooves are dry and the O-rings are not rolled or pinched.
2. Remove the sensor cap from its shipping/storage sleeve.

The expected operating lifetime of the cap is two years after the first reading has been taken.

NOTICE

Keep the cap in its sealed packaging until you are ready to install it.

Install promptly.

Avoid allowing moisture, including humidity, inside the cap.

3. Align the arrow on the cap with the sensor tip and firmly press the cap onto the probe, without twisting, until it seals.
4. Reattach the nose cone.

NOTICE

Make sure the nose cone is in place whenever the probe is submerged in water.

5. Connect the cable to the transmitter.

3 Install the probe

You can install the Rosemount 490A dissolved oxygen probe in basins or ponds.

Procedure

Use the fitting at the rear of the probe to attach it to a pipe.

Make sure the connection is water-tight and the upper end of the pipe is closed to keep out water. The nose cone must be completely submerged.

NOTICE

Equipment damage

The integral cable is not separable from the sensor. Do not use a wrench or apply torque to the cable hex. This could damage the probe or the seal between the cable and the probe which would allow water ingress.

4 Wiring the probe

The Rosemount 490A dissolved oxygen probe comes with an integral cable that connects to the M12 connector on the transmitter.

5 Declaration of Conformity



EU DECLARATION OF CONFORMITY



This declaration of conformity is issued under the sole responsibility of

Rosemount Inc.
6021 Innovation Blvd
Shakopee, MN 55379
USA

that the following products,

Rosemount™ 490A Optical Dissolved Oxygen Sensor

comply with the provisions of the European Union Directives, including the latest amendments, valid at the time this declaration was signed.

 Jan 7, 2025 Mark Lee | Vice President, Quality | Boulder, CO, USA
(signature & date of issue) (name) (function) (place of issue)

Authorized Representative in Europe:
Emerson S.R.L., company No. J12/88/2006
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EMC Directive (2014/30/EU)

Harmonized Standards:
EN 61000-6-2:2005
EN 55011:2009+A1:2010

RoHS Directive (2011/65/EU)

Harmonized Standards:
IEC 63000:2018

6 China RoHS table

含有China RoHS管控物质超过最大浓度限值的部件型号列表
List of Parts with China RoHS Concentration above MCVs

部件名称 Part Name	有害物质 / Hazardous Substances					
	铅 Lead (Pb)	汞 Mercury (Hg)	镉 Cadmium (Cd)	六价铬 Hexavalent Chromium (Cr +6)	多溴联苯 Polybrominated biphenyls (PBB)	多溴联苯醚 Polybrominated diphenyl ethers (PBDE)
电子组件 Electronics Assembly	X	0	0	0	0	0
传感器组件 Sensor Assembly	0	0	0	0	0	0

本表格系依据SJ/T11364的规定而制作。

This table is proposed in accordance with the provision of SJ/T11364.

O: 意为该部件的所有均质材料中该有害物质的含量均低于GB/T 26572所规定的限值要求。

O: Indicate that said hazardous substance in all of the homogeneous materials for this part is below the limit requirement of GB/T 26572.

X: 意为在该部件所使用的所有均质材料里, 至少有一类均质材料中该有害物质的含量高于GB/T 26572所规定的限值要求。

X: Indicate that said hazardous substance contained in at least one of the homogeneous materials used for this part is above the limit requirement of GB/T 26572.

Note

There are no electronic spare parts for the Rosemount 490A.



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