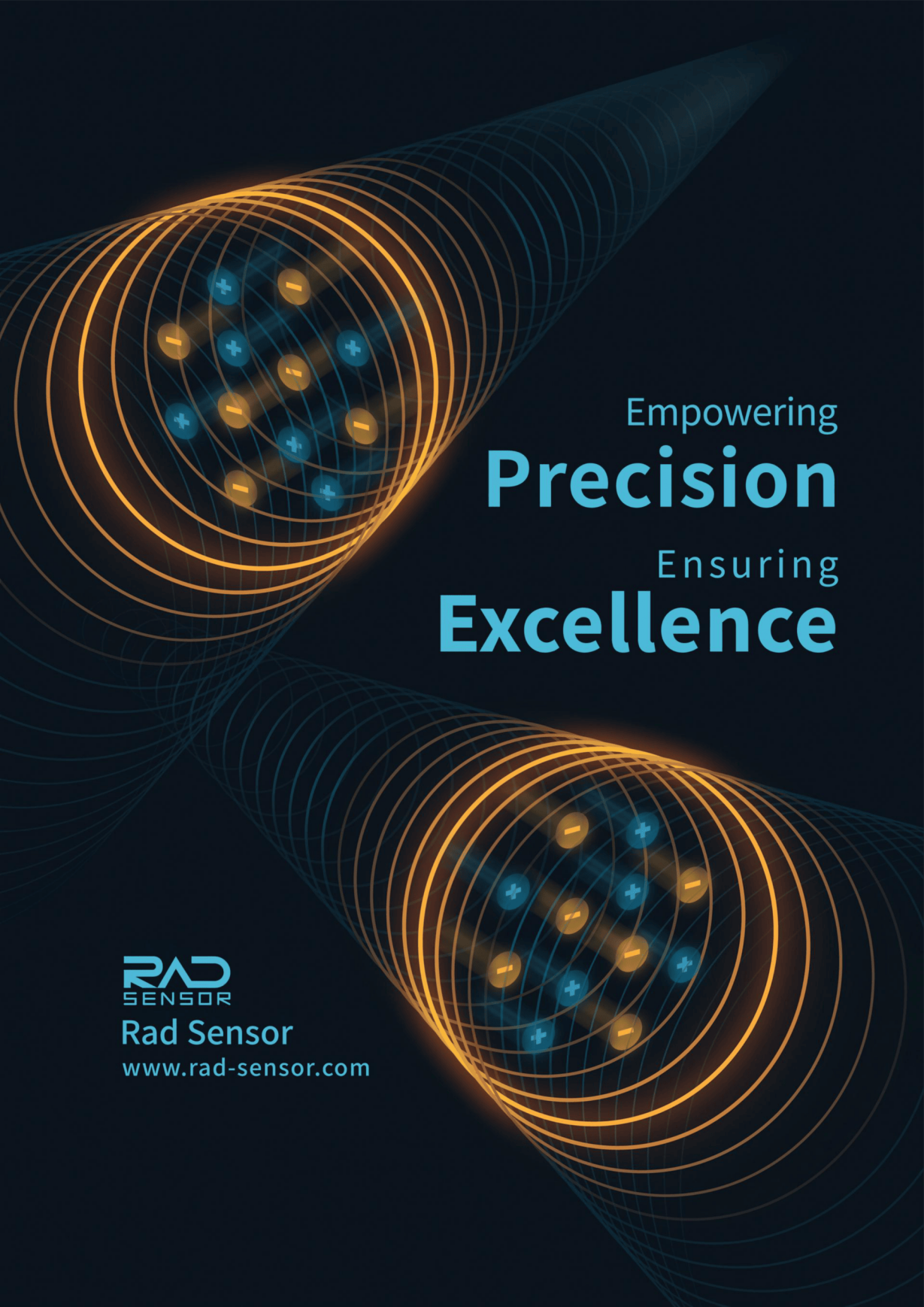
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Electrical Conductivity Sensor

Conductivity sensors play a crucial role in various industries, including the manufacturing sector, water treatment facilities, and scientific research.

These sensors provide valuable insights into the conductivity levels of liquids, helping to monitor and control processes efficiently.

Conductivity is the capacity that a solution has for conducting an electrical current. Conductivity is a measurement of the total concentration of ions in a solution. It is used in a wide variety of industries. In same cases the nature of the ions is a known factor and it is used to determine their concentration. For example, in the food industry a conductivity meter is used to measure the salinity of the samples and it is applied in quality control. However, measuring conductivity in waste water, industrial effluents, etc. helps provide reading on their total ionic strength.

Applications

Sensors and transmitters are used in many industries such as food and beverages, chemicals, pharmaceuticals, water, and power plants.

Water Purity Assessment

Conductivity sensors help in assessing the purity of water by measuring the presence of dissolved salts and minerals. Higher conductivity levels can indicate elevated concentrations of impurities, which may affect the water's suitability for drinking, industrial processes, agricultural, or aquaculture use.

Chemical Mixing and Dilution

The conductivity sensors aid in accurately measuring the concentration of various chemicals during mixing and dilution processes.
This ensures precise formulation and avoids potential errors that could compromise product integrity.

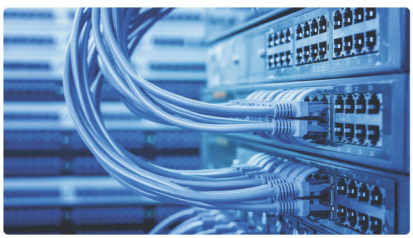
Desalination Processes

Conductivity sensors are crucial in desalination plants where saltwater is converted into freshwater.
These sensors ensure the removal of a sufficient amount of salt during the process, making the water safe for consumption and other applications.

Property

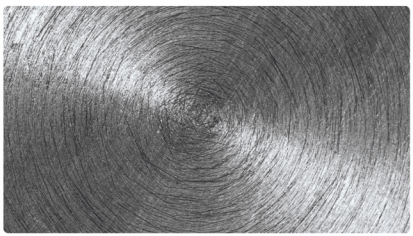
one-point calibration

One-point calibration makes it possible to calibrate your sensor simply with only one calibration solution.



Protocol customization

This product is use in verious industries. Therefor, it is possible to customize the communication protocols depends on the customers order.



Anti-corrosion body

The integrated body is made of 316L stainless steel alloy, which is highly resistant to corrosion.

Very Accurate

The accuracy of **1%** is the result of the integrated design and arrangement between the electrodes, the temperature sensor and the optimal electronic design of the transmitter.

High ingress protection

Very high ingress protection is required for this product. Because it can continue to work accurately in different environmental conditions.

All in One

All in One

An integrated product that incorporates electrical conductivity probes and transmitter with a compact design.

Advantages

Hardware and software customization

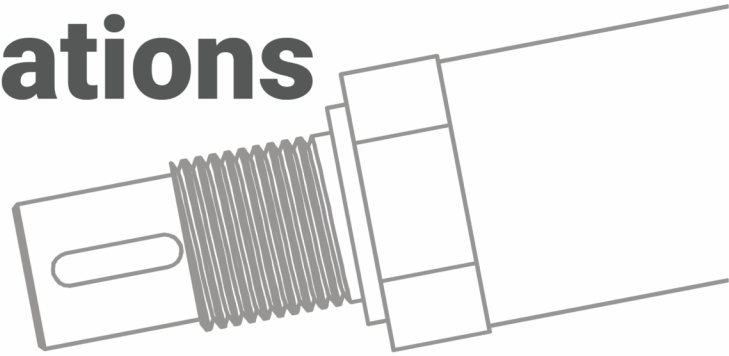
Easy service and maintenance

Hardware and software support

Continuous after-sale service

Technical Specifications

Model: Rad EC Pro



Description	Explanations
Measuring medium	Liquid
Principle	Frequency conversion method
Temperature compensation	Automatic
Range	0 ~ 20 mS/cm (any range of 0-300 mS/cm can be customized, 1ms/cm = 1000μS/cm)
Supply	15 ~ 30 VDC (power consumption<0.2W)
Accuracy	±1%
Response time	1s
Output Signal	Modbus RS485/4-20 mA (Depends on customer order)
Electrode	316L stainless steel
Operating temperature	(-5 ~ +65 centigrade)
Probe material	316L and ABS
Ingress protection	Probe: IP68 Body: IP65
Cable length	Default:3m

Rad Sensor manufacturing company is one of the Mazid technology holding companies and operates in Khuzestan Science and Technology Park, Iran. This company is one of Iran's technological companies that, relying on the knowledge of its specialists, has been able to design and produce industrial sensors and has been named as one of the few manufacturers with the technology to manufacture industrial sensors in Iran. It should be noted that due to the cooperation of this company with other Mazid holding companies, a wide chain of various technical engineering services has been formed that meets the needs of various industries.

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