

Rosemount™ RBI pH Sensor



CHALLENGE

In the chemical, mining, and pulp and paper environments, pH sensors are pushed to the limits with exposure to high temperatures and harsh chemicals. These chemicals can poison and corrupt the pH reference system, leading to inaccuracies and frequent replacement of inoperable pH sensors.

OUR SOLUTION

The Rosemount™ RBI pH sensor utilizes a unique, multi-layered reference junction that delays the poisoning chemicals from eroding the pH reference. This special reference allows the sensor to last for months compared to other sensors that last for only days or weeks. In addition, the new Variopol (VP) quick-disconnect feature greatly minimizes replacement time, reducing pH measurement downtime in harsh, demanding applications.

HOW IT WORKS

- The outer reference junction is built with multiple layers of specialized materials that protect the pH reference from the poison ions, such as sulfides, extending sensor life
- Quick-disconnect electrical connections enable fast sensor replacement, which increase operational efficiency and return on investment
- Extended insertion depth and retractable options support a variety of process situations and shorten installation downtime
- Compatibility with the easy-to-use Rosemount 56 transmitter allows for fast configuration and calibration on a full-color screen with diagnostics, which lowers maintenance time and operational costs

WHAT IF...

...pH sensors lasted longer in demanding applications?

...pH sensors with consistent, inline measurement increased operational efficiency?



Key Innovations

- Multi-layered axial reference junction
- Retractable sensor options
- Variopol (VP) quick disconnect

Rosemount™ RBI pH Sensor

Specifications

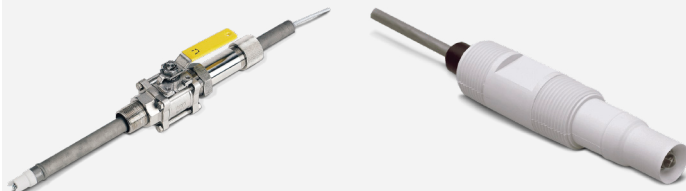
Temperature	0–248 °F (120 °C)
Pressure	0–150 psi (1035 kPa)
Process Connection	0.75 in. MNPT Insertion or Retractable
Temperature Compensation	Pt100
Insertion Depth	0.5, 1.0, or 1.5 in.
Electrical Connection	Variopol 6 pin – Compatible with Rosemount cable 24281-00 Integral Cable
Transmitter Compatibility	Rosemount 56, Rosemount 1056, Rosemount 1066, Rosemount 5081, Rosemount 1057

Associated Products

Liquid Transmitters - 56, 5081, 1056, 1066, 1057



pH Sensors - 396RVP, 396PVP



Global Headquarters

Emerson Automation Solutions
6021 Innovation Blvd
Shakopee, MN 55379
USA

- ☎ Toll Free + 800 854 8257
- ✉ Liquid.CSC@Emerson.com
- 🌐 www.Emerson.com/RosemountLiquidAnalysis

Consider it Solved.

Emerson Automation Solutions supports you with innovative technologies and expertise to address your toughest challenges. For more information, visit Emerson.com/RosemountLiquidAnalysis.

Standard Terms and Conditions of Sale can be found at www.Emerson.com/en-us/pages/Terms-of-Use.aspx
The Emerson logo is a trademark and service mark of Emerson Electric Co.
Rosemount is a mark of one of the Emerson family of companies.
All other marks are the property of their respective owners.
©2019 Emerson. All rights reserved.

00807-0100-4501_RevAA

ROSEMOUNT™


EMERSON™