

Rosemount™ High Purity pH Panel



Panel for your high purity pH applications

The Rosemount 00390-7101-0001 Low Flow Panel provides accurate and low maintenance measurement of pH in high purity water applications. For more details, refer to our [technical note](#).

Note

3900VP sensor shown, ordered separately from the [3900/3900VP Sensor Product Data Sheet](#).

Overview

Reliable measurement with a robust sensor

- [Proven success](#) in high purity water applications ranging from water treatment for drinking water all the way to ultra-pure water for boiler systems when the low flow panel is combined with our 3900/3900VP general purpose pH sensor. Measure conductivity down to 0.4 $\mu\text{S}/\text{cm}$.

Simple reagent-less sample handling system

- Constant head flow controller uses gravity to provide stable flow rate that enables accurate measurement with minimal waste and without the use of reagents. Maintains constant low pressure, helping to extend sensor life.

Ease of installation

- Easy panel to install with virtually maintenance-free upkeep. Utilizes our 3900/3900VP general purpose pH sensor eliminating the need for a specialty sensor.

Exciting features

- User can pull the sensor out and calibrate it without shutting the system or flow off. It allows the user to have a side stream for the application without having to do any additional work.

Contents

Overview.....	2
Ordering information.....	3
Specifications.....	4
Dimensional drawing.....	5

Ordering information

The Rosemount Low Flow Panel⁽¹⁾ includes a constant head flow controller and flow cell with necessary tubing connections. For a complete system, order the part number listed in [Table 1](#) along with a 3900/3900VP sensor and cable to use with your existing Rosemount pH Transmitter. The system will ship as a panel with the constant head flow controller, flow cell, and tubing attached. The 3900/3900VP sensor and cable will ship loose.

Table 1: Rosemount Low Flow Panel ordering information

Part number	Description
00390-7101-0001	This is the low flow panel assembly consisting of the black abs panel, constant head flow controller, low flow cell, and associated tubing.

(1) Make sure to order 3900/3900VP and cable separately. For these items and other spare parts, refer to the [3900/3900VP Sensor Product Data Sheet](#).

Specifications

Sample conductivity 0.4 to 50 μ S/cm or greater

Temperature 32 to 122 °F (0 to 50 °C)

Inlet flow rate for panel

Minimum flow:	3 gal/hr (11.4 L/h)
Maximum flow:	80 gal/hr (303 L/hr)

Inlet pressure 3 to 65 psig, check valve opens at 3 psig

Panel process connection ¼-in OD tubing compression fitting (can be removed and replaced with a barbed fitting for use with soft tubing).

Panel drain connection ¾-in. barbed fitting. Sample must drain to open atmosphere.

Sensor threaded connection 1-in. national pipe thread (NPT) adapter

**Wetted parts⁽²⁾
(low flow panel)**

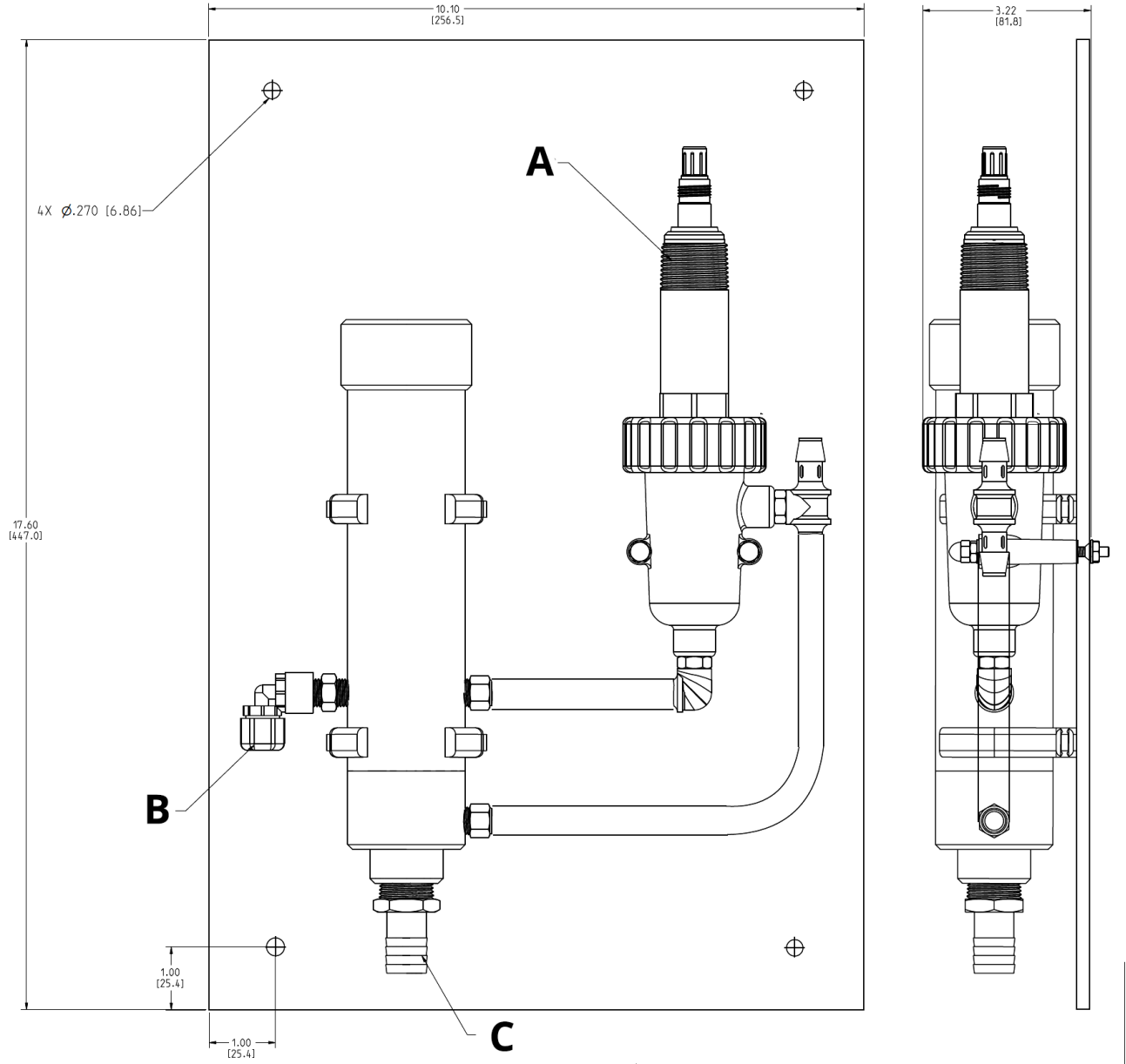
Flow cell body and nut	Polyester/polycarbonate
Fittings	Nylon
Seals/tubing	Silicone
Constant head device	Acrylic
Check valve	Kynar®
Flow restrictor plug	Delrin®
Sensor body	Polyphenylene sulfide

Panel shipping weight Low Flow Panel system: 6 lb (2.7 kg)

(2) Refer to the [3900/3900VP Sensor Product Data Sheet](#) for sensor wetted materials and other specifications.

Dimensional drawing

Figure 1: Low Flow Panel (PN 00390-7101-0001)



- A. pH sensor and VP cable not included
- B. 1/4-in. tube fitting
- C. 3/4-in. barbed fitting

For more information: [Emerson.com](https://www.emerson.com)

©2022 Emerson. All rights reserved.

Emerson Terms and Conditions of Sale are available upon request. 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.

ROSEMOUNT™

