

# EasyFerm Bio PHI VP 425 Pt1000

Specification Sheet (Part/REF # 243632-1172)



EasyFerm Bio pH sensors provides pre-pressurized reference technology in a sensor designed for the food and beverage market.

## Product Specifications

|                              |   |
|------------------------------|---|
| <b>Sensor Family</b>         | EasyFerm Bio  |
| <b>Parameter</b>             | pH  |
| <b>a-length</b>              | 425 mm  |
| <b>Electrical Connector</b>  | VP6   |
| <b>Measurement Principle</b> | Combination electrode; pH potential measured against reference          |
| <b>Measuring Range</b>       | pH 0 to 14  |
| <b>Sensitivity</b>           | 57 to 59 mV / pH at 25 °C   |
| <b>Zero Point</b>            | 0 ± 20 mV   |
| <b>pH Glass</b>              | Hamilton Type PHI Glass   |
| <b>pH Glass Resistance</b>   | Moderate  |
| <b>Membrane Shape</b>        | Spherical   |
| <b>Diaphragm</b>             | HP-Coatramic  |
| <b>Number of Diaphragms</b>  | 1   |
| <b>Electrolyte</b>           | Pressurized Foodlyte  |
| <b>Reference System</b>      | Hamilton Everef-F, Silver ion barrier included                          |
| <b>Liquid Earth</b>          | No  |
| <b>Temperature Sensor</b>    | Pt1000  |
| <b>Diameter</b>              | 12 mm   |
| <b>Process Connection</b>    | PG13,5  |
| <b>Wetted Parts</b>          | Glass<br>Ceramic<br>VMQ (Silicone elastomer)                            |
| <b>O-ring Material</b>       | FDA 21 CFR 177.2600; EG 1935/2004; USP <87>; USP <88> Class VI (121 °C) |
| <b>Serial Number</b>         | Yes   |
| <b>Recommended Storage</b>   | Hamilton Storage Solution or 3 M KCl                                    |
| <b>Certificate</b>           | Yes, with measured values in Buffer pH 4.01 and pH 7.00                 |
| <b>ATEX Approval</b>         | II 1/2 G Ex ia IIC T4/T5/T6 Ga/Gb; II 1/2 D ia IIIC T x °C Da/Db        |
| <b>IECEX Approval</b>        | II 1/2 G Ex ia IIC T4/T5/T6 Ga/Gb; II 1/2 D ia IIIC T x °C Da/Db        |
| <b>Autoclavable</b>          | Yes   |
| <b>CIP</b>                   | Yes   |
| <b>Steam Sterilizable</b>    | Yes   |

**Operating Temperature Range** 0 to 140 °C

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**Sample min Conductivity** 100 µS/cm

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**Pressure Range bar g** 0 to 6 bar

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Specifications are subject to change without notice

**Spec. Version B**

<https://www.hamiltoncompany.com/process-analytics/sensors/243632-1172>