

# MecoTrode VP 120

Specification Sheet (Part/REF # 238437)



MecoTrode traditional pH sensors offer a traditional mV output combined with glass and reference design for industrial applications including HF.

## Product Specifications

|                              |   |
|------------------------------|---|
| <b>Sensor Family</b>         | MecoTrode   |
| <b>Parameter</b>             | pH  |
| <b>Sensor Output</b>         | Traditional: mV   |
| <b>a-length</b>              | 120 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 H Glass   |
| <b>pH Glass Resistance</b>   | Moderate  |
| <b>Membrane Shape</b>        | Spherical   |
| <b>Diaphragm</b>             | HP-Ceramic  |
| <b>Number of Diaphragms</b>  | 3   |
| <b>Electrolyte</b>           | Viscous 3 M KCl-Pharma, blue  |
| <b>Reference System</b>      | Hamilton Everef   |
| <b>Liquid Earth</b>          | No  |
| <b>Temperature Sensor</b>    | Pt100   |
| <b>Diameter</b>              | 12 mm   |
| <b>Process Connection</b>    | PG13,5  |
| <b>Wetted Parts</b>          | Glass<br>Ceramic<br>EPDM (Ethylene propylene 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>          | No  |
| <b>CIP</b>                   | No  |

|                                    |  |
|------------------------------------|--|
| <b>Steam Sterilizable</b>          | No   |
| <b>Operating Temperature Range</b> | 0 to 130 °C                                |
| <b>Sample min Conductivity</b>     | 50 µS/cm                                   |
| <b>Pressure Range bar g</b>        | 0 to 16 bar at 25 °C, 0 to 6 bar at 130 °C |

Specifications are subject to change without notice

**Spec. Version B**

<https://www.hamiltoncompany.com/process-analytics/sensors/238437>