

# EasyFerm Plus HB MS 325

Specification Sheet (Part/REF # 238633-2453)



The EasyFerm Plus pH sensor is Hamilton's most popular product for pharmaceutical applications where autoclave and SIP are frequently performed.

## Product Specifications

<b>Sensor Family</b>	EasyFerm Plus
<b>Parameter</b>	pH
<b>a-length</b>	325 mm
<b>Electrical Connector</b>	Memosens
<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 HB 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 Phermlyte
<b>Reference System</b>	Hamilton Everef-F, Silver ion barrier included
<b>Liquid Earth</b>	No
<b>Temperature Sensor</b>	NTC 30 kOhm
<b>Diameter</b>	12 mm
<b>Process Connection</b>	PG13,5
<b>Wetted Parts</b>	Glass Ceramic 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 G Ex ia IIC T3/T4/T6 Ga
<b>IECEX Approval</b>	II 1 G Ex ia IIC T3/T4/T6 Ga
<b>Autoclavable</b>	Yes
<b>CIP</b>	Yes

<b>Steam Sterilizable</b>	Yes
<b>Operating Temperature Range</b>	0 to 135 °C; 0 to 130 °C (ATEX)
<b>Sample min Conductivity</b>	100 µS/cm
<b>Pressure Range bar g</b>	0 to 6 bar

Specifications are subject to change without notice

**Spec. Version B**

<https://www.hamiltoncompany.com/process-analytics/sensors/238633-2453>