



# EasyFerm Plus ORP Arc 325

Specification Sheet (Part/REF # 243052)

Arc technology with a variety of sensor length options make this versatile sensor ideal for process control and monitoring in bioprocesses.

## Product Specifications

<b>Sensor Family</b>	EasyFerm Plus
<b>Parameter</b>	ORP
<b>Sensor Output</b>	Arc: Modbus, 4 to 20 mA
<b>a-length</b>	325 mm
<b>Electrical Connector</b>	VP8
<b>Measurement Principle</b>	Combination electrode; ORP potential measured against reference
<b>Measuring Range</b>	-1500 mV to +1500 mV
<b>ORP Element</b>	Pt ring
<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>	Yes
<b>Temperature Sensor</b>	NTC 22 kOhm
<b>Configurable Values</b>	ORP: mV; Temperature: °C, K, °F
<b>Diameter</b>	12 mm
<b>Process Connection</b>	PG13,5
<b>Wetted Parts</b>	Platinum Glass Ceramic EPDM (Ethylene propylene elastomer)
<b>Analog Interface 1</b>	4 to 20 mA, programmable
<b>Analog Interface 2</b>	4 to 20 mA for Temp., programmable
<b>Analog Interface 1 and 2</b>	Galvanically not isolated; pulse width modulation 3.5 kHz
<b>Digital Interface</b>	RS485 Modbus (max. 31 addresses)
<b>Baud Rate</b>	4800, 9600, 19200, 38400, 57600, 115200 Bd
<b>Operating Voltage</b>	7 to 30 VDC max. 150 mW
<b>Serial Number</b>	Yes
<b>Recommended Storage</b>	Hamilton Storage Solution or 3 M KCl
<b>Certificate</b>	Yes, with measured value in ORP buffer +475 mV
<b>ATEX Approval</b>	No
<b>IECEX Approval</b>	No
<b>Autoclavable</b>	Yes, max. Temperature 130 °C
<b>CIP</b>	Yes
<b>Steam Sterilizable</b>	Yes, max. Temperature 140 °C

**Operating Temperature Range**

Analog interface: 0 to 110 °C; Digital interface: 0 to 140 °C

**Sample min Conductivity**

100 µS/cm

Specifications are subject to change without notice

**Spec. Version B**<https://www.hamiltoncompany.com/process-analytics/sensors/243052>