

EasyFerm Food Arc 425

Specification Sheet (Part #242123)



As the EasyFerm Plus family, the EasyFerm Food family of pH-electrodes is also ideal for Biotech applications, like fermentations, where autoclavations, steam sterilisations (SIP) and cleaning in place (CIP) procedures occur frequently. In addition the EasyFerm Food offers certified BIO-compatibility for the reference electrolyte as well as EHEDG certified cleanability. In combination with the space saving Hamilton Hygienic Socket or Flexifit the EasyFerm Food fits perfect in many kinds of fermenters and vessels. Available with the innovative Arc technology.

Product Specifications

a-length	425 mm
Analog Interface 1	4-20 mA for pH, programmable
Analog Interface 2	4-20 mA for temperature, programmable
Analog Interface 1 and 2	galvanically not isolated; pulse width modulation 3.5 kHz
ATEX Approval	No
Autoclavable	Yes
Baud Rate	4800, 9600, 19200, 38400, 57600, 115200 bd
Certificate	Yes, with measured values in Buffer pH 4.01 and pH 7.00
CIP	Yes
Diameter	12 mm
Diaphragm	HP-Coatramic
Digital RS485 Interface:	Modbus RTU, max 31 addresses
Electrical Connector	VP 8

Product Specifications (continued)

Electrolyte	Pressurized Foodlyte
Liquid Earth	Yes
Measurement Principle	Combination electrode; pH potential measured against reference
Measuring Range	pH 0 to 14
Medium Affected Materials	Glass, Silicone
Membrane	Hamilton type HB glass
Membrane Shape	Cylindrical
Number of Diaphragms	1
O-ring material	Silicone (FDA and USP approved)
Operating Temperature Range	Analog interface: 0 to 110 °C; Digital interface: 0 to 130 °C
Operating Voltage	7 to 30 VDC max. 150 mW
pH glass resistance	Moderate
Pressure Range	0 to 6 bar
Process Connection	PG 13.5
Recommended Storage	Hamilton Storage Solution or 3 M KCl
Reference System	Hamilton Everef-F, Silver ion barrier included
Sample: min Conductivity	100 µS/cm
Sensitivity	57 to 59 mV / pH at 25 °C
Serial Number	Yes
Configurable values	pH: pH, mV; Temperature: °C, K, °F
Steam Sterilizable	Yes
Temperature Sensor	Yes
Zero-Point	0 ± 20 mV

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