

## Data Sheet

### EASYFERM FOOD VP

The EASYFERM FOOD VP sensors are designed for applications in pharmaceutical industry, biotechnology and food and beverages industry. The FOODLYTE reference electrolyte is intended and foreseen to get into contact with food. It does not harm microorganisms in fermenters. The electrolyte is pre-pressurized to prevent the diffusion of sample into the sensor. The EVEREF-F reference cartridge ensures that the FOODLYTE reference electrolyte remains free of silver and precipitation. EASYFERM FOOD VP withstands steam sterilization, autoclavation and cleaning in place.

**Application Fields:**

Food and beverage industry, biotechnology, pharmaceutical industry

**Specifications:**

Serial Number:	Yes
Certificate:	Yes, with measured values in buffer pH 4.01 and pH 7.00
Measuring Method:	Combination electrode, potential measured against reference electrode
Range:	pH 0 ... 14
Zero-Point:	0 ± 20 mV
Sensitivity:	57 ... 59 mV / pH at 25°C
Temperature Range:	0 ... 135°C
Pressure Range:	0 ... 6 bar
Electrolyte:	Pressurized FOODLYTE
Reference System:	HAMILTON EVEREF-F, Silver ion barrier included
Liquid Earth:	No
Shaft Material:	Glass
Membrane glass:	HAMILTON type HB glass
Sample: min Conductivity:	100 µS/cm
Diaphragm:	HP-COATRAMIC
Number of diaphragms:	1
Steam sterilizable:	Yes
Autoclavable:	Yes
CIP:	Yes
Electrical Connector:	VP 6.0 multipin connector with PG 13.5
Temperature Sensor:	Yes, Pt 100
ATEX approval:	No, pending
Cleanability certificate:	Yes, tested and certified according to In-place cleanability, Type EL-class 1, March 2009, European Hygienic Engineering & Design Group, tested in a HYGIENIC SOCKET™ by TU München
Biocompatibility certificate:	Yes, FOODLYTE tested and certified according to DIN EN 150 10993-5 and USP 31, 2008 <87> by Medical Device Testing, Ochsenhausen, Germany, 2009
Food compatibility tested:	Yes, FOODLYTE complies with the German Food and Feed Act (LFGB, § 2 (6) 1), TÜV Rheinland Produkt und Umwelt GmbH, 2009
Recommended Storage:	HAMILTON Storage Solution (p/n 238931) or 3M KCl (p/n 238036 or 238936)

**Ordering Information:**

Part Number	Description	a-length (a)
243 632	EASYFERM FOOD VP 120	120 mm
243 633	EASYFERM FOOD VP 225	225 mm
243 634	EASYFERM FOOD VP 325	325 mm
243 635	EASYFERM FOOD VP 425	425 mm

**Dimensional drawing:**

