

# VisiFerm DO SU ECS 225

Specification Sheet (Part/REF # 10116428)



The VisiFerm DO SU ECS 225 for single-use applications works with Hamilton single-use ODO Cap . The VisiFerm DO SU ECS 225 is reusable and can be mounted directly into the ODO Cap within the bag or SU bioreactor.

## Product Specifications

<b>Sensor Family</b>	VisiFerm SU
<b>a-length</b>	215 mm
<b>Electrical Connector</b>	VP8
<b>Sensor Output</b>	Traditional: nA
<b>Measurement Principle</b>	Oxygen dependent luminescence quenching, temperature compensation
<b>Measuring Range</b>	4 ppb to 25 ppm (DO) 0 to 62.85 %-vol 0 to 300 %-sat
<b>Accuracy at 25 °C</b>	± 1.0 %-sat (at 100 %-sat), only in combination with the gamma irradiated Hamilton single-use ODO Cap and with product calibration ± 2.5 %-sat (at 20 %-sat), only in combination with the gamma irradiated Hamilton single-use ODO Cap and with product calibration ± 5.0 %-sat (at 200 %-sat), only in combination with the gamma irradiated Hamilton single-use ODO Cap and with product calibration
<b>Drift at Room Temperature</b>	< 1 % per week (of measurement value)
<b>Electrolyte</b>	None
<b>Oxygen Consumption</b>	None
<b>Temperature Sensor</b>	NTC 22 kOhm
<b>Configurable Values</b>	DO: mbar; %-sat; %-vol; µg/l; mg/l; ppb/ppm (gas); ppb/ppm (dissolved oxygen); Temperature: °C
<b>Diameter</b>	12 mm
<b>Analog Interface 1</b>	ECS / 4 to 20 mA
<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. 1 W
<b>Serial Number</b>	Yes
<b>Response Time</b>	t98% < 30 s at 25 °C
<b>Certificate</b>	Yes, with parameter settings and materials used
<b>ATEX Approval</b>	No
<b>Autoclavable</b>	No
<b>CIP</b>	No
<b>Steam Sterilizable</b>	No
<b>Gamma Irradiatable</b>	No
<b>Operating Temperature Range</b>	0 to 60 °C

