

Optical DO Cap S2 Kit

Specification Sheet (Part/REF # 10077858)



The Hamilton ODO Cap S2 Kit is an optical dissolved oxygen sensor cap kit that can be integrated into single use benchtop reactors.

Product Specifications

Measurement Principle	Oxygen dependent luminescence quenching, temperature compensation
Measuring Range	4 ppb to 25 ppm (DO) 0 to 62.85 %-vol 0 to 300 %-sat
Accuracy at 25 °C	± 1.0 %-sat (at 20 %-sat) after gamma irradiation and with product calibration ± 1.0 %-sat (at 100 %-sat) after gamma irradiation and with product calibration ± 2.5 %-sat (at 200 %-sat) after gamma irradiation and with product calibration
Calibration Data	Yes, provided on sensor label
Drift at Room Temperature	< 1 % per week (of measurement value)
Wetted Parts	PA (Cycloaliphatic polyamide) EPDM (Ethylene propylene elastomer) VMQ (Silicone elastomer) See compliance details in Material Specification document
Biocompatibility	Yes, see separate study report (upon request)
Wet-in Time	30 min after dry storage
Shelf Life	12 months prior gamma irradiation 24 months after gamma irradiation
Serial Number	Yes
Response Time	t98% < 30 s at 25 °C
Autoclavable	No
CIP	No
Steam Sterilizable	No
Gamma Irradiatable	Yes, up to 50 kGy
Operating Temperature Range	4 to 50 °C

Specifications are subject to change without notice

<https://www.hamiltoncompany.com/sensors/10077858>

Spec. Version D