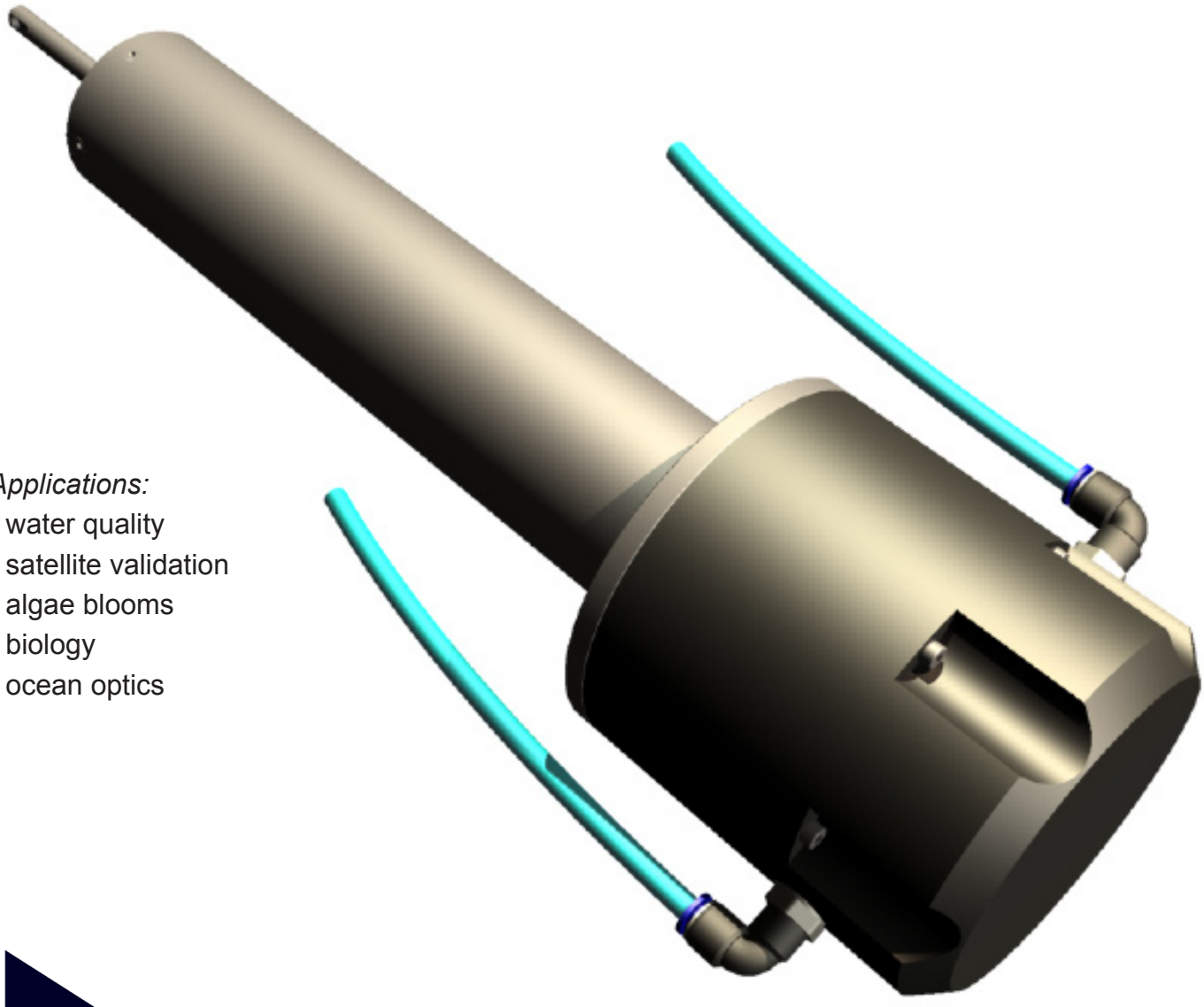
OSCAR

Online hyperspectral integrating cavity absorption meter

OSCAR is a new high-end absorption meter, following the principle of the well-known PSICAM (Point Source Integrating Absorption Meter). This principle allows to measure the real absorption spectra without the use of many assumptions, like other instruments on the market. OSCAR is suitable for laboratory use, but also for in situ profiling and moored applications. Internal datalogging function and low power consumption make the sensor suitable for autonomous measurements.



Applications:
- water quality
- satellite validation
- algae blooms
- biology
- ocean optics

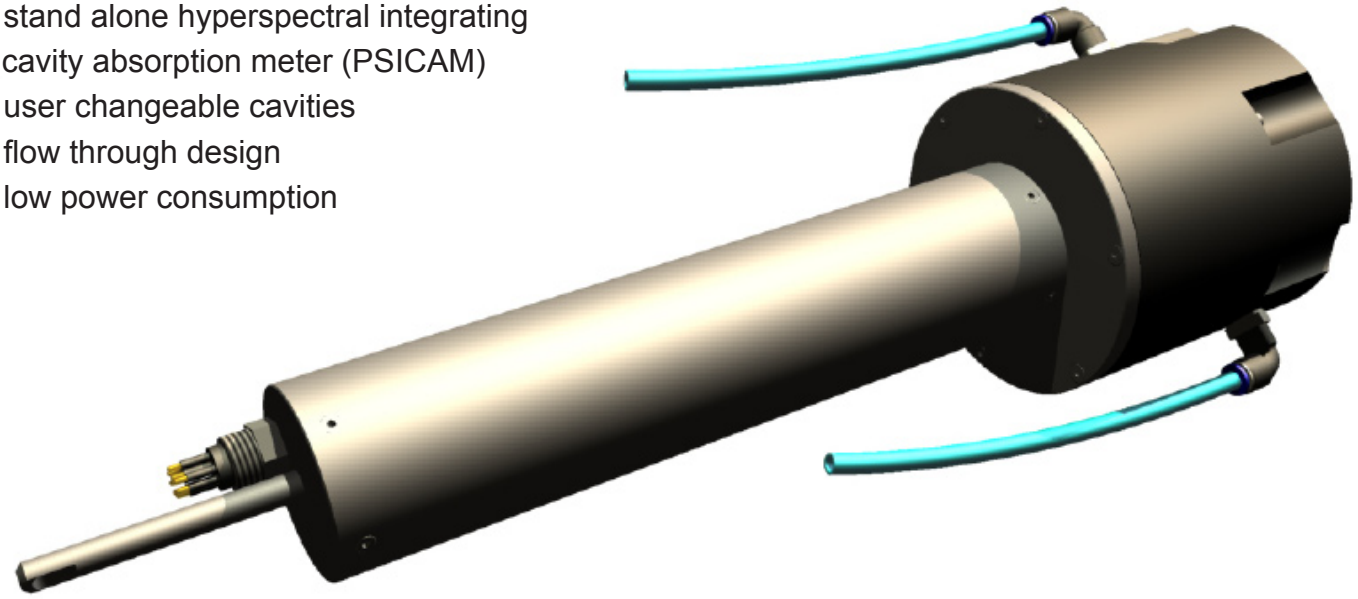
TriOS
Optical Sensors

OSCAR

Info

	OSCAR Online hyperspectral integrating cavity absorption meter
wavelength range	360 - 750 nm
detector type	256 channel silicon photodiode array
spectral sampling	1.7 nm/pixel
spectral accuracy	0.5 nm
light source	LEDs
data storage	1 GB memory card
telemetry interfaces	RS-232, 1 user programmable analog output
power supply	9 - 28 VDC
housing	stainless steel (1.4571) or titanium
cavity	d= 50mm or 80mm (changeable by user)
size	d= 68mm / 130mm, length= 441mm (without connector)
depth range	300m
connector	SubConn micro series 5 pin, male
operation temperature	0 - 40°C
	internal temperature sensor

- stand alone hyperspectral integrating cavity absorption meter (PSICAM)
- user changeable cavities
- flow through design
- low power consumption



order codes

11 5000	OSCAR	41 0000	TriBox2 (controller), 85 - 265 VAC
11 5001	OSCAR Ti (titanium)	41 0001	TriBox2 (controller), 24 VDC
contact us for additional accessories like measurement cavities or sensor frames			

GKSS FORSCHUNGSZENTRUM in der HELMHOLTZ GEMEINSCHAFT

OSCAR was developed in cooperation with the GKSS research centre, Germany