

Product Fact Sheet

onCyt™ OC-300

Fully automated microbial
On-Line monitoring



Product name

onCyt™ OC-300 Uno
onCyt™ OC-300 Duo

Product picture



OC-300 Uno



OC-300 Duo

Manufacturer information



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Summary

The onCyt™ OC-300 is a benchtop On-Line monitoring device for fully automated in-situ sampling, staining, and incubation of liquid samples. Together with the flow-based CyFlow™ Cube 6 V2m analyser from Sysmex it enables the continuous real time analysis for various microbial applications.

The possibility to monitor the microbial load in real time enables to detect abnormal changes in a water network immediately. The fully customisable system allows to avoid unpleasant surprises by maintaining continuous process control and to optimise individual treatment processes.

In combination with the Cube 6 V2m, the OC-300 can be easily configured for use in different environments. The flexible use of various reagents and analysing strategies enables to focus on meaningful parameters like exact microbial count, viability, and changes in the composition of the microbial community. This enables microbial analysis in e.g. indoor aquaculture systems, in bio fermenters for a continuous production of proteins, and in drinking water production and reuse.

Key features in industrial testing

- Real time microbial On-Line monitoring
- 24/7 automated sample acquisition and measurement
- Early detection of malfunctions, defects or external influences allowing prompt and appropriate actions
- Objective clear-cut decisions
- Fully customisable automation modes for On-Line sampling, sample processing, and measurements at high temporal resolution
- Reproducible and meaningful results, laboratory-independent and everywhere

Performance specifications

Features	Description
Functions	Automated sampling, staining, incubation, dilution and mixing
24/7 measurements	Up to 266 autonomous measurements (standard total cell count with 350 µL sample per measurement)
Workflow (cleaning and measurement)	Customisable (various staining reagents, frequency)
Sample streams	Up to 11 in parallel (OC-300 Duo)
Min. sampling frequency	15 minutes
Incubation chambers	3
Incubation temperature	30 - 45 °C (without active cooling function)
Pre-dilution	Up to 1:1000

Technical specifications

Features	Description
Dimensions (L x W x H)	35 cm x 25 cm x 25 cm
Weight	5 kg
# Syringe pump	1 (OC-300 Uno) 2 (OC-300 Duo)
Power input	100 - 240 V AC; 50 / 60 Hz 1.5 A
Power output	+24 V DC / 3.75 A
Ambient conditions	15 °C - 30 °C 20 - 80% rel. humid. (indoor usage only)
Interface	USB
Compatible flow cytometer	CyFlow Cube 6 V2m
Operating system (CyFlow Cube 6 V2m)	Windows 10
Software (CyFlow Cube 6 V2m)	onCyt™ CyOn-300 (operation) onCyt™ CyPlot-300 (data analysis) CyView™ 1.8 (Cube 6 V2m)

Ordering information

Article number	Item
AT874197	OC-300 Uno
CQ563791	OC-300 Duo
CY-S-3061R-V2m	CyFlow Cube 6 V2m
CY-S-3061R-V2m_U1	Cube 6 V2m Interface - onCyt
Inline connector onCyt	CC827894