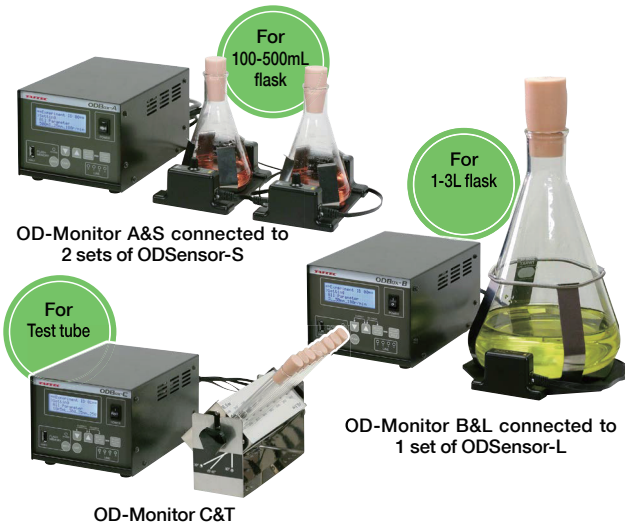


OD-Monitor OD-Monitor A&S/B&L/C&T

The industry's first Non-contact turbidimeter realizes to measure the turbidity of sample at OD₆₀₀ while shaking. Adopted among the hundreds of R&D institutions. Operated with Bioshaker (Incubator shaker) in combination.

"Bioshaker BR series" --> P.018-032 Shaker "NR series" --> P.062-066



Features

- The turbidity can be measured at OD₆₀₀ noncontact while shaking.
- Three models for Large / Small Erlenmeyer flask and Test tube.
- Operated with Bioshaker (Incubator shaker) in combination

Applications

- Labor-saving acquisition of growth curve.
- Screening for Microbes such as beneficial bacteria that are sampled difficulty.
- Automation of IPTG induction [B&L with options].

Released from the cumbersome turbidity measurement.

Enables you to perform the shaking culture and the measurement of turbidity efficiently at the same time and released from the cumbersome turbidity measurement. Not has a harmful effect on the growth and metabolism of fungus thanks to no-stop stop shaking.

Operated with Bioshaker in combination.

Fix ODSensor with the clamp on the platform inside Bioshaker BR-series (w/o BR-180LF-70RT) and put the vessel on it. It can be also used in Shaker NR series.

Wide variety of customization.

We can customize it widely and flexibly per your request such as for Strictly anaerobic bacteria, Thermophile, Ultra-high concentration, Water bath and so on. Feel free to ask us.

Model	OD-Monitor A&S	OD-Monitor B&L	OD-Monitor C&T
Measurement method/range	Light transmission, 0.00 to 2.55 (OD600)	Light transmission/Reflected light, 0.00 to 9.99 (OD600)	Light transmission, 0.00 to 2.55 (OD600)
Vessel and Fluid volume	Vessel: Glass Erlenmeyer flask (*2) Size: 100/200/300/500mL Fluid volume: 20/40/60/100mL	Vessel: Glass Erlenmeyer flask (*2) Size: 1/2/3L Fluid volume: 350/700/1000mL	Vessel: Glass Test tube Size: φ16.5/18.0mL Fluid volume: 5mL or 10mL
Shaking conditions	Orbital shaking 80 to 400r/min (Shaking width 25mm) 80 to 200r/min (Shaking width 30/40mm) 80 to 250r/min (Shaking width 50mm)	Orbital shaking 100 to 250r/min (Shaking width 25/50mm)	Reciprocal shaking 100 to 250r/min (Shaking width 25/50mm) Angle of Test tube 90/45/30°
Measurement intervals	1/5/10/30/60/120/240min		
Measurement channel	1 to 8 (*1)	1 to 4 (*1)	1 to 8 (*1)
Ambient temp. range	15 to 50°C		
Other functions	Alarm for specific value at OD, Transformation to Spectrophotometer in measurement value, USB flash drive (CSV file), Operation for pump unit (B&L) when above specified OD value.		
Standard accessories for ODBox	1 x Flat cable (2m) * For A&S, 1 x Power code		
Standard accessories for ODSensor	1xVibration absorbing pad of Flask (large and small), 1 x Flat cable (0.5m)	1 x Flask stand (1L), 1 x Flat cable (2m)	1 x Magnet adapter (2 types), 4 x Flat cable (2m)

(*1)A&S/B&L equipped with 1 channel per 1 set of ODSensor. Some number of ODSensor should be required depending the number of samples. Although C&T equipped with 8 channels per 1 set of ODSensor it can be only connected with 1 set of ODBox. ODSensor with maximum number of channel cannot be put in Bioshaker depending its size. Ask us for details.

(*2)Flask clamp not come with. It is as an option.

The capacity (number of installation and measurement) of ODSensor in Bioshaker BR-series.

A&S and B&L: In BR-series the number of measurement of the unit equal to that of installation of the unit.

C&T: The number of measurement to the number of installation is by 8 times.

BR series	ODSensor-S	ODSensor-L	ODSensor-T (at 45°)
BR-21/22/23	3 sets	1set (Up to 2L)	2 sets = 2 x C&T
BR-40/41/42/43	5 sets	2 sets (*1)	3 sets = 3 x C&T
BR-300LF	8 sets	4 sets	5 sets = 5 x C&T
BR-180LF/GBR	16 sets = 2 x A&S	5 sets = 2 x B&L	12 sets = 12 x C&T
BR-3000LF	20 sets = 3 x A&S	8 sets = 2 x B&L	14 sets = 14 x C&T

(*1)Up to 2L of Erlenmeyer flask can be used with the BR-40LF.



Combination of OD-Monitor C&T and BR-23FP

Combination of OD-Monitor A&S and BR-43FL