MANTECH

OPTIMIZE YOUR RESULTS. PROTECT OUR ENVIRONMENT.

AUTOMATED
BIOCHEMICAL OXYGEN DEMAND
(BOD) SOLUTIONS

MANTECH

AUTOMATED BOD ANALYSIS SOLUTIONS

The MANTECH BOD Pro™ system automates the 5-day and 7-day Biological Oxygen Demand (BOD) analysis methods approved for regulatory compliance around the world.

BOD PRO™ CONFORMS TO THE FOLLOWING REGULATORY NORMS:

- ASTM Standard Methods 5210B, 22nd edition
- EPA 405.1
- ISO EN 18991
- ISO EN 18992
- ISO EN 5815-1

BOD PRO™ SYSTEM FEATURES

MANUAL BOD

AM 400™ SERIES

- 11 place 300mL bottle capacity
- Manual operation

Pictured: Optical probe

- 18 - 90 place 300mL bottle capacity
- Automated dilution, seed & inhibitor
- Can be coupled with MANTECH's Automated Titration Analysis for a two-in-one system configuration
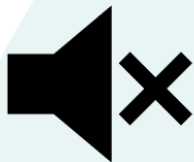

OPTIONS

BOTTLE TYPE	**PROBE**	**BOTTLE SIZE**	**PeCOD® COD ANALYZER ADD ON**
Glass or Plastic	Optical or membrane	60 mL or 300 mL	

AutoMax 400 Series
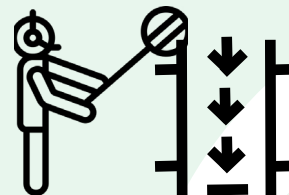
MANTECH's Next Generation Autosamplers

Sounds Like an EV

So quiet that if you're not looking at it, you don't know it's running.

Runs Like an F1

Fast analysis time reduces run times and improves efficiency.

Stops on a Line

Accuracy of probe placement by less than a millimeter.

NEW AM400 Autosamplers Dimensions

29.5in / 75cm

AM401	AM402	AM403	AM404	AM405
1 Sample Rack	2 Sample Racks	3 Sample Racks	4 Sample Racks	5 Sample Racks
24in / 62cm	36in / 93cm	48in / 122cm	60in / 152cm	72in / 183cm

30in / 76cm

Additional 15in / 38cm bench space is required for MANTECH system organizer.

ONE SIZE **DOES NOT** FIT ALL!

MANTECH's new AM400 autosamplers are designed to meet your laboratory's needs with capacities ranging from 18 - 90 positions (300mL bottles).
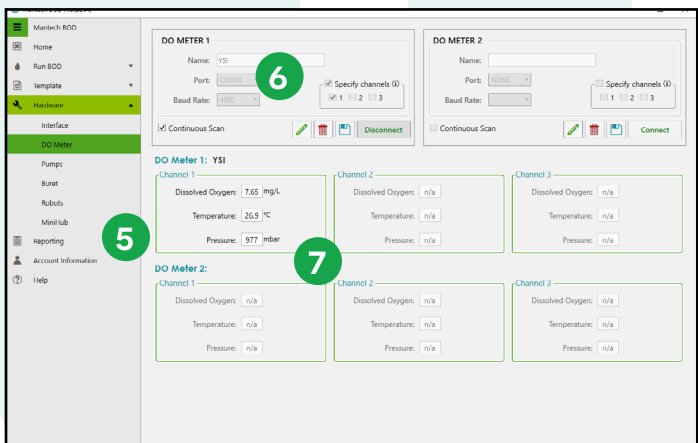
STANDARD RACK CAPACITIES

60mL Bottles
24 positions x 60mL

300mL Standard Bottles
18 positions x 300mL

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BOD PRO™ SOFTWARE

MANTECH's advanced BOD Pro™ software is designed to comply with user protocol requirements, and is designed to comply with user protocol requirements and is easy to use.
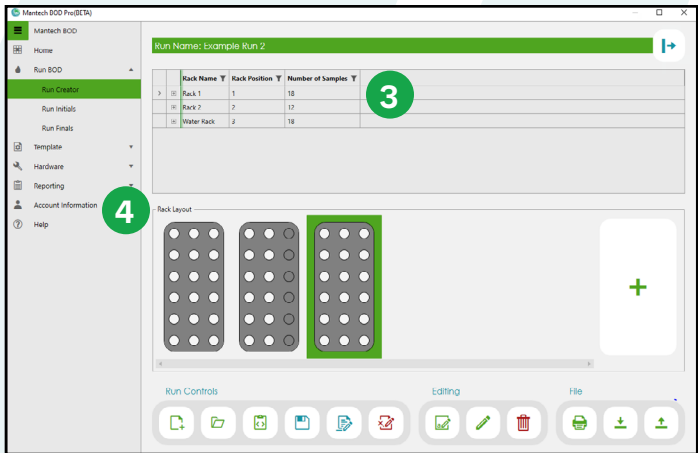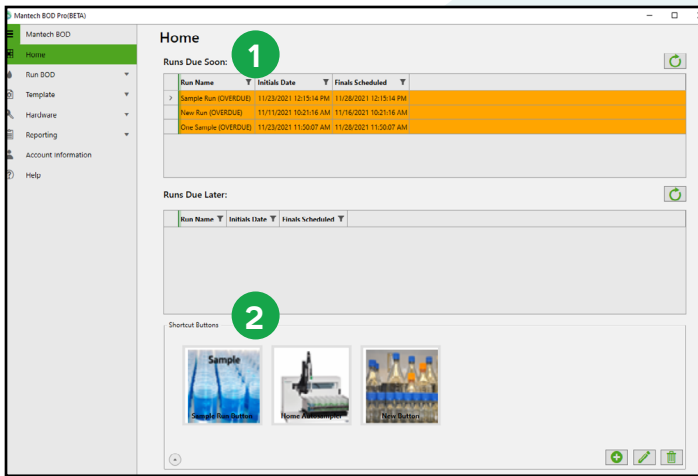
1 Software tracks 5 and 7 day incubation period with reminders of runs due each day

2 Customizable shortcut buttons

3 Ability to modify or use existing run templates for efficient analysis

4 Administrator account NOT required for installation or operation

5 Real-time email alerts for user-defined events or run completion

6 Customer choice to integrate YSI or Hach DO meters

7 Ability to add two single, dual or triple probe meters

BOD PRO™ BENEFITS

Automates the 5-day and 7-day BOD and CBOD standard analysis methods

Eliminates potential for human error by automating up to five pumps for reagent addition

Customizable user interface to simplify operation

Easily manage and prioritize samples during analysis

Quickly identify results with barcoded labels

COMPLETE REPORTING WITH AUDIT TRAIL

BOD Final Report

Date: 2021-11-29 14:23:32
Analyst: [Username]

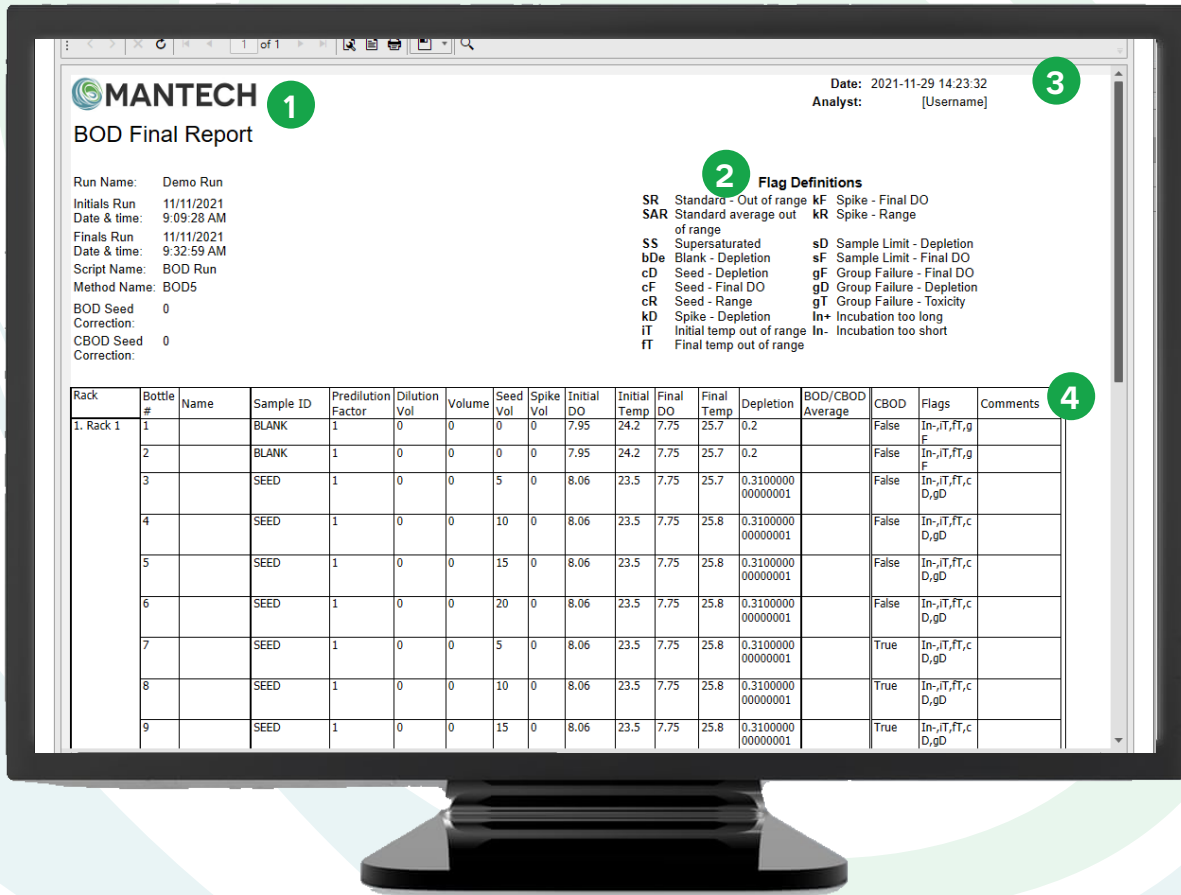| Run Name:	Demo Run
Initials Run Date & time:	11/11/2021 9:09:28 AM
Finals Run Date & time:	11/11/2021 9:32:59 AM
Script Name:	BOD Run
Method Name:	BOD5
BOD Seed Correction:	0
CBOD Seed Correction:	0

Flag Definitions

SR	Standard - Out of range	kF	Spike - Final DO
SAR	Standard average out of range	kR	Spike - Range
SS	Supersaturated	sD	Sample Limit - Depletion
bDe	Blank - Depletion	sF	Sample Limit - Final DO
cD	Seed - Depletion	gF	Group Failure - Final DO
cF	Seed - Final DO	gD	Group Failure - Depletion
cR	Seed - Range	gT	Group Failure - Toxicity
kD	Spike - Depletion	In+	Incubation too long
iT	Initial temp out of range	In-	Incubation too short
fT	Final temp out of range		

Rack	Bottle #	Name	Sample ID	Predilution Factor	Dilution Vol	Volume	Seed Vol	Spike Vol	Initial DO	Initial Temp	Final DO	Final Temp	Depletion	BOD/CBOD Average	CBOD	Flags	Comments
1. Rack 1	1		BLANK	1	0	0	0	0	7.95	24.2	7.75	25.7	0.2		False	In-,iT,fT,gF	
	2		BLANK	1	0	0	0	0	7.95	24.2	7.75	25.7	0.2		False	In-,iT,fT,gF	
	3		SEED	1	0	0	5	0	8.06	23.5	7.75	25.7	0.3100000 00000001		False	In-,iT,fT,cD,gD	
	4		SEED	1	0	0	10	0	8.06	23.5	7.75	25.8	0.3100000 00000001		False	In-,iT,fT,cD,gD	
	5		SEED	1	0	0	15	0	8.06	23.5	7.75	25.8	0.3100000 00000001		False	In-,iT,fT,cD,gD	
	6		SEED	1	0	0	20	0	8.06	23.5	7.75	25.8	0.3100000 00000001		False	In-,iT,fT,cD,gD	
	7		SEED	1	0	0	5	0	8.06	23.5	7.75	25.8	0.3100000 00000001		True	In-,iT,fT,cD,gD	
	8		SEED	1	0	0	10	0	8.06	23.5	7.75	25.8	0.3100000 00000001		True	In-,iT,fT,cD,gD	
	9		SEED	1	0	0	15	0	8.06	23.5	7.75	25.8	0.3100000 00000001		True	In-,iT,fT,cD,gD	

1 Final BOD report with customizable headings

2 Flags to alert users of violations

3 Auto print or export to LIMS

4 Add up to 10 user-defined data colums

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