



Automatic Digital Polarimeter ADP95CFR



ADP95CFR

High Speed Automatic Polarimeter

Single Wavelength

SALIENT FEATURES

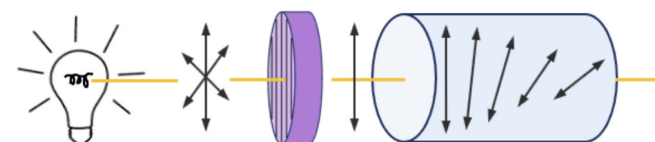
- ✦ GMP / GLP / 21CFR PART 11
- ✦ Android Operating System
- ✦ State - of - Art Control Technology
- ✦ 3 Decimal point Precision
- ✦ 128GB, 1000 Data Storage
- ✦ Internal Peltier Temperature Control
- ✦ Working Wavelength 589 nm
- ✦ 10.1" Colour Touch Screen Display
- ✦ Optical Rotation, Specific Rotation,
- ✦ Sugar, Concentration, User Define
- ✦ 1000 Prestored measurement method can set

About 21CFR Part 11

The requirements for submitting documentation in electronic form and the criteria for approved electronic signatures mostly as per 21CFR Part 11

About Optical Rotation

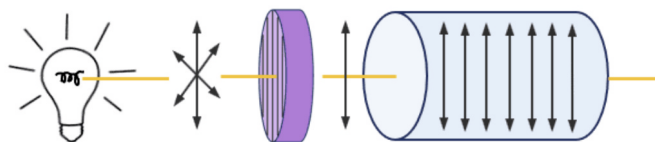
"When plane-polarized light passes through an optically active substance, the plane of polarization undergoes rotation by an amount specifically related to the substance it traverses.



Light Source

Polarizer

Optically **active**



Light Source

Polarizer

Optically **inactive**

High Speed Automatic Polarimeter

HSN Code : 90275030

SPECIFICATIONS

MODEL	ADP95CFR
Make	LABMAN
Measuring Mode	Optical Rotation, Specific Rotation, Sugar. Concentration, User Define
Measuring range	$\pm 90^\circ$ Optical Rotation $\pm 259^\circ Z$ Sugar
Frequently Used Method	300
Light Source	LED
Operational Wavelength	589nm
Minimum reading	0.001°C
Accuracy	$\pm 0.004^\circ C$
Repeatability	$\pm 0.002^\circ C$
Operation System	Android
Software	In Built
Min. transmission of samples	0.1%
Response Speed	8° /S
Measurement time	6 times / 26s
Sample temperature control	Yes
Temperature Control mode	Peltier (In-Built)
Temperature Control range	10 -50
Temperature Control accuracy	± 0.2
Display	10.1" Colour Touchscreen
Calibration Method	Multipoint - Automatic Calibration
Memory	128GB
Compliance with Regulations	GMP / GLP 21CFR PART 11
Length of Test Tube	100mm & 200mm
Test tubes	200mm 100mm(regular) 100mm(temp control)
Interface	USB & RS232C
Packing Dimension (LxWxH)	870 x 520 x 475mm
Gross Weight	34kg

★ Specifications are subject to change without notice.

STANDARD ACCESSORIES : Main Instrument, 100mm Glass Test Tube, 200mm Glass Test Tube, Syringe with needle, Fuse, Power Cable, Test Tube Accessories, 100mm Peltier Tube, Test Tube Cleaning Brush, Peltier Cleaning Brush, Touch Pen, Instruction Manual, Test Certificate.

ADP95CFR - High Speed Automatic Polarimeter

User Permission List / Function Configuration List

Sr.No.	Permission name	Software
1	Measure sample	√
2	Calibrate instrument	√
3	Query measurement record	√
4	Export measurement record	√
5	Upload measurement record	√
6	Print measurement record	√
7	Delete measurement record	×
8	View measurement detail	√
9	Electronic signature [Confirms]	√
10	Electronic signature [Review]	√
11	Electronic signature [Approve]	√
12	Export measurement detail	√
13	Upload measurement report	√
14	Print measurement report	√
15	Back up data to USB stick	√
16	Back up data to FTP	√
17	Set regular backup	√
18	Query user	√
19	New user	√
20	Edit user	√
21	Delete user	×
22	Query method	√
23	New method	√
24	Edit method	√

Sr.No.	Permission name	Software
25	Delete method	×
26	language setting	√
27	Screen brightness setting	√
28	Network setting	√
29	Communication setting	√
30	Micro printer	√
31	Code scanning setting	√
32	Automatic setting	√
33	Time setting	√
34	Restore factory setting	√
35	Default setting	√
36	Password policy	√
37	Login policy	√
38	Lock screen policy	√
39	Query warning record	√
40	Export warning record	√
41	Print warning record	√
42	Query operation record	√
43	Export operation record	√
44	Print operation record	√
45	View operation detail	√
46	Export operation detail	√
47	Print operation detail	√

ADP95CFR - High Speed Automatic Polarimeter

Display Screen Reference

Self-Check

- Database ☒
- Communication serial port ☒
- Temperature sensor ☒
- High voltage controller ☒
- Encoder ☒
- Motor ☒

Enter user login

Automatic polarimeter

06/19/2024 15:22

Measurement

Sample name: Sample number:

Optical rotation $\alpha = 0.000$

α 0.000

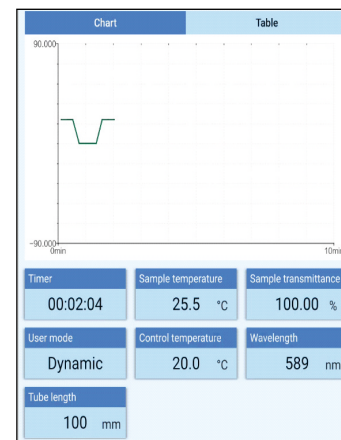
Timer	Sample temperature	Sample transmittance
00:00:08	26.3 °C	100.00 %

User mode	Control temperature	Wavelength
General	20.0 °C	589 nm

Tube length	Measurement times
100 mm	6

Temp. control Setting Micro print

Clear Measure Calibrate



User login

User name: Admin

Password:

Login

Setup

Apply

Sample name: Sample number:

Use method: ☐

Method name: 202407040002

User mode: General

Measurement mode: Optical rotation

Tube length: 100 mm

Wavelength: 589 nm

Control temperature: 20.0 °C

Measurement times: 6

Electronic signature

Verification mode: Password

Password:

Reason: ☒ Approve ☐ Review ☐ Confirm

Description: Pass approval

Apply Cancel

Automatic polarimeter

06/20/2024 15:27

Menu

Debug Administrator

Modify password Change user

Lock screen Exit application

Measurement Data

User Method

Setting Audit

About

Optical rotation

$\alpha = 21.580$

α_1 : 21.581 α_2 : 21.580

α_3 : 21.580 α_4 : 21.580

α_5 : 21.580 α_6 : 21.580

Average : 21.580 Std.Dev. : 0.000

Timer	Sample temperature	Sample transmittance
00:00:18	25.7 °C	100.00 %

User mode	Control temperature	Wavelength
General	20.0 °C	589 nm

Tube length	Measurement times
100 mm	6

Save measurement record

Do you want to save measurement record ?

Apply Cancel

Measurement detail

Measurement report

Sample information

Measurement number: 00000239 Print date: 08/19/2024

Sample number: Sample name: Meas. Date: 08/19/2024 Experimenter: Debug

Measurement method

Instrument model: SGW-533A Instrument number: 000000000001

Method name: User mode: General

Measurement mode: Optical rotation Control temperature: 20.0 °C

Wavelength: 589 nm Tube length: 100 mm

Measurement times: 6

Number	Time	Temperature	Result
1	15:39:34	25.5	21.579
2	15:39:36	25.5	21.578
3	15:39:39	25.5	21.579
4	15:39:41	25.5	21.579
5	15:39:43	25.5	21.579
6	15:39:45	25.5	21.578

Average: 21.579 Max: 21.579 Std.Dev.: 0.000 Min: 21.578

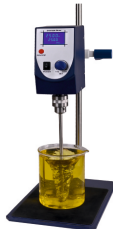
Sign Export

Upload Print

LABMAN Product Range 2025-26

LMFD61, 62, 63, 64 Lyophilizer Freeze Dryer (-60°C)	LMFD83, 84 Lyophilizer Freeze Dryer (-80°C)	LMRE25 Rotary Evaporator	ADM3 Automatic Density Meter	MSOD6 Microvolume Spectrophotometer
NAE32 Nucleic Acid Extractor	EMR4 Elisa Microplate Reader	GPTC96 Gradient PCR Thermal Cycler	HO30 Hybridization Oven	UVCL254 UV - Crosslinker
TGH12, 24 Tissue Grinder Homogenizer	PBH80T Paddle Blender Homogenizer	TOC2NDir Total Organic Carbon Analyzer	TOC1CD Total Organic Carbon Analyzer	LMDS600, 1200 Microwave Digestion System
HPLC1IS, HPLC2GS High Performance Liquid Chromatography	APT1800 Automatic Potential Titrator	KFT250VC Karl Fischer Titrator	COD1500 COD Analyzer with Digestor	BOD4000 BOD Analyzer
MTVM50 Multi Tube Vortex Mixer	LMVM60D Vortex Mixer	OS20 Orbital Shaker	TRM6 Tube Roller Mixer	DBNE12, 24 Dry Bath Nitrogen Evaporator

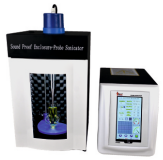
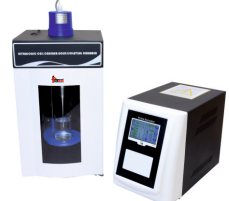
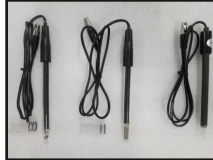
LABMAN Product Range 2025-26

DBI11T  Dry Bath Incubator	DBI15SH, DBI16SC  Dry Bath Incubator	IRS14, 35  Infrared Sterilizer	GGA200  Air Generator	GGA301, 302  Hydrogen Generator
GGN303  Nitrogen Generator	GHA304  Hydrogen Air Generator(2 in 1)	LMVP10  Vacuum Pump	LMVP20  Vacuum Pump	LMCO1  Column Oven
LMIO6  Mini Thermostatic Incubator	GHP400  Graphite Hotplate	LOBMS5  Oil Bath Magnetic Stirrer	LMMS4LC, 20LC  Ceramic Hotplate Magnetic Stirrer	LMMS300  Hotplate Magnetic Stirrer
MMS15S  Multiposition Magnetic Stirrer	MMS12H  Multiposition Magnetic Stirrer	WBMS3  Water Bath Magnetic Stirrer	LMWB2H, 4H, 6H, 8H  Digital Water Bath	HOS20L  Overhead Stirrer
LMHH160  Hand Held Homogenizer	PS1565  Peltier / Sipper System	LUV6HG  PMT Spectrophotometer	LUV2000T, 2100T  Single / Double Beam UV-Vis. Spectrophotometer with 21CFR	LMSPUV SERIES  Double Beam UV-Vis. Spectrophotometer

LABMAN Product Range 2025-26

LMSPUV1200  UV-Vis. Single Beam Spectrophotometer	LMSPV320, 325  Visible Spectrophotometer	ADP100CFR, 95CFR  Automatic Digital Polarimeter with CFR	ADP45, 50  Automatic Digital Polarimeter (±45°)	ADP75, 90  Automatic Digital Polarimeter (±90°)
ADP40  Automatic Digital Polarimeter	LMPM180  Manual Polarimeter	MAR100  Manual ABBE Refractometer	RFM100CFR  Digital Refractometer CFR	RFM950, 970  Digital Refractometer
LMAR1317T  ABBE Refractometer	LMDV300H  Digital Viscometer with Thermosel	LMDV60, 100, 200  Digital Viscometer (L Series)	LMDV400R  Digital Viscometer (R Series)	LMKV2  Krebs Viscometer
LMDV111, 222  Digital Viscometer with SSA	LVA30  Low Viscosity Adaptor	LMCR80F  Visual Colorimeter	LMUC2D  Ultrasonic Cleaner	LMUC3D, 6D, 9D, 12D, 25D  Ultrasonic Cleaner - Degas
LMUC50, 100  Industrial Ultrasonic Cleaner	LMPH15  pH Meter with Printer	LMPH12, LMPH10H  pH Meter	LMPH9  pH Meter - Basic	LMCM20H  Conductivity / TDS Meter

LABMAN Product Range 2025-26

LMCM20H  Conductivity / TDS Meter	LMMP30, 32  Multiparameter (7 in 1 / 9 in 1)	LMION40  Ion Meter	LMDO50  Dissolved Oxygen Meter	LMHD60  Water Hardness Meter
OPH11  Online pH Controller	OCM21  Online Conductivity Controller	LMTB200  Turbidity Meter	RCB1010T, 1020T, 1030T  Refrigerated Circulating Bath	RCB620T  Refrigerated Circulating Bath
RWC320  Recirculating Water Chiller	LMDO4P  Portable DO Meter	LMPH1P  Portable pH / ORP Meter	LMCM2P  Portable Conductivity / TDS Meter	LMTB5P  Portable Turbidity Meter
PRO656, 900, 1200, 1800  Probe Sonicator	PRO660R  Probe Sonicator with Remote	PRO650  Probe Sonicator	LMIF30T, 50T, 100T  Ice Flaker	LMIF200T  Ice Flaker
LMIM15  Ice Maker	LMIM20C  Ice Maker with Crusher	ISE19, 62  Nitrate / Fluoride ISEs	ER SERIES  pH Electrode / DO Electrode	CC1, CC2, CC3  Conductivity Cell