



portable multiparameter analyzer for water test LH-P300(E)

(support either adapter or rechargeable lithium battery for power.)



Functional characteristic

- 1) The built-in measurement upper limit is displayed intuitively, and the dial displays the detection upper limit value with a red prompt for exceeding the limit.
- 2) Simple and practical function, efficiently meeting requirement, quick detection of various indicators, and simple operation.
- 3) The 3.5-inch color screen interface is clear and beautiful, with a dial style UI detection interface and direct concentration reading.
- 4) New digestion device: 6/9/16/25 wells (optional).
- 5) 180 pcs of built-in curves support calibration production, with rich curves that can be calibrated, suitable for various testing environment
- 6) Supporting optical calibration, ensuring luminous intensity, improving instrument accuracy and stability, and extending service life
- 7) Large capacity lithium batteries have a long-lasting endurance, lasting up to 8



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hours under comprehensive working condition

8) Standard reagent consumables, simple and reliable experiments, standard configuration of our YK reagent consumables series, easy operation

Technical parameter

Instrument model No.		LH-P300(E)
Measurement indicator		COD (0-15000mg/L)
		Ammonia (0-200mg/L)
		Total phosphorus (0-100mg/L)
		Total nitrogen (0-15mg/L)
		Turbidity, color, suspended solid
		Organic, inorganic, metal, pollutants
Curve number		180 pcs
Data storage		40 thousand sets
accuracy	COD $\leq$ 50mg/L, $\leq$ $\pm$ 8%;COD $>$ 50mg/L, $\leq$ $\pm$ 5%;TP $\leq$ $\pm$ 8%; other indicator $\leq$ 10	
repeatability	3%	
Colorimetric method	By 16mm/25mm round tube	
resolution ratio	0.001Abs	
display screen	3.5-inch colorful LCD display screen	
Battery capacity	Lithium battery 3.7V3000mAh	
Charging method	5W USB-Type c	
printer	External Bluetooth printer	
Host weight	0.6Kg	
Host size	224× (108×78)mm	
Instrument power	0.5W	
ambient temperature	40℃	
ambient humidity	$\leq$ 85%RH (No condensation)	
Digester	9/16/25 (optional)	

Measure indicator

No.	indicator	Analysis method	Test range (mg/L)
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1	COD	Rapid digestion spectrophotometry	0-15000
2	Permanganate index	Potassium permanganate oxidation spectrophotometry	0.3-5
3	Ammonia nitrogen - Nessler's	Nessler's reagent spectrophotometry	0-160 (segmented)
	Ammonia nitrogen salicylic acid	Salicylic acid spectrophotometric method	0.02-50
4	Total phosphorus ammonium molybdate	Ammonium molybdate spectrophotometric method	0-12 (segmented)
	Total phosphorus vanadium molybdenum yellow	Vanadium molybdenum yellow spectrophotometric method	0-100
6	Total nitrogen	chromotropic acid spectrophotometry	1-150
7	turbidity	Formazine spectrophotometric method	0-400NTU
9	color	Platinum cobalt color series	0-500Hazen
10	Suspended solid	Direct colorimetric method	0-1000
11	Copper	BCA photometry	0.02-50
12	Iron	Phenanthroline spectrophotometric method	0.01-50
13	Nickel	Dimethylglyoxime spectrophotometric method	0.1-40
14	hexavalent chromium	Diphenylcarbazide spectrophotometric method	0.01-10
15	total chromium	Diphenylcarbazide spectrophotometric method	0.01-10
16	lead	Dimethyl phenol orange spectrophotometric method	0.05-50
17	Zinc	Zinc reagent spectrophotometry	0.1-10
18	cadmium	Dithizone spectrophotometric method	0.1-5
19	manganese	Potassium periodate spectrophotometric method	0.01-50
20	silver	Cadmium reagent 2B spectrophotometric method	0.01-8
21	Antimony (Sb)	5-Br-PADAP spectrophotometry	0.05-12

22	cobalt	5-Chloro-2- (pyridylazo) -1,3-diaminobenzene spectrophotometric method	0.05-20
23	nitrate nitrogen	chromotropic acid spectrophotometry	0.05-250
24	Nitrite nitrogen	Nitrogen hydrochloride naphthalene ethylenediamine spectrophotometric method	0.01-6
25	sulfide	methylene blue spectrophotometry	0.02-20
26	sulfate	Barium chromate spectrophotometric method	5-2500
27	phosphate	Ammonium molybdate spectrophotometry	0-25
28	fluoride	Fluorine reagent spectrophotometry	0.01-12
29	cyanide	Barbituric acid spectrophotometry	0.004-5
30	Free chlorine	N. N-diethyl-1.4 phenylenediamine spectrophotometric method	0.1-15
31	total chlorine	N. N-diethyl-1.4 phenylenediamine spectrophotometric method	0.1-15
32	chlorine dioxide	DPD spectrophotometry	0.1-50
33	ozone	Indigo spectrophotometry	0.01-1.25
34	silica	Silicon molybdenum blue spectrophotometry	0.05-40
35	formaldehyde	Acetylacetone spectrophotometric method	0.05-50
36	aniline	Naphthyl ethylenediamine hydrochloride azo spectrophotometric method	0.03-20
37	nitrobenzene	Determination of total nitro compounds by spectrophotometry	0.05-25
38	Volatile phenol	4-Aminoantipyrine spectrophotometric method	0.01-25
39	Anionic surfactants	Methylene blue spectrophotometry	0.05-20

40	udmh	Sodium aminoferrocyanide spectrophotometric method	0.1-20
41	Total alkalinity	Methyl orange spectrophotometric method	20-400
42	Magnesium hardness	Calcium magnesium reagent spectrophotometric method	0.1-80 1 French degree is equivalent to 10mg/L of CaCO ₃ .
43	calcium hardness	Calcium magnesium reagent spectrophotometric method	0.1-80
44	Total Iron	Phenanthroline spectrophotometric method	0.2-100
45	Volatile fatty acids	Esterification spectrophotometry	20-3600

- 1, 内置测量上限超限直观显示, 表盘显示检测上限值, 超限红色提示.
 - 2, 功能简单实用, 高效满足需求, 各项指标快速检测, 操作简单.
 - 3, 3.5 吋彩色屏幕 界面清晰美观, 表盘式 UI 检测界面, 浓度直读.
 - 4, 全新消解仪: 6/9/16/25 孔(可选).
- 1) 180 条内置曲线支持校准制作, 曲线丰富可校准, 适应各种检测环境.
 - 2) 支持光学校准, 保障发光强度, 提升仪器精准度、稳定性, 延长使用寿命.
- 大容量锂电池续航持久, 综合工况下续航持久, 长达 8 小时.
- 3) 标配试剂耗材, 实验简单可靠, 标配我司 YK 试剂耗材系列, 操作简单.

技术参数

仪器型号	LH-P300(E)
测量项目	COD (0-15000mg/L)
	氨氮 (0-200mg/L)
	总磷 (0-100mg/L)
	总氮 (0-15mg/L)

		浊度色度悬浮物
		有机,无机,金属,污染物
曲线数量		180 pcs
储存数据		4 万组
示值误差	COD≤50mg/L,≤±8%;COD>50mg/L,≤±5%;TP≤±8%; 其他指标≤10	
重复性	3%	
比色方式	16mm/25mm 比色管	
分辨率	0.001Abs	
显示屏	3.5 吋彩色液晶显示屏	
电池容量	锂电池 3.7V3000mAh	
充电方式	5W USB-Type c	
打印机	外置蓝牙打印机	
主机重量	0.6Kg	
主机尺寸	224× (108×78)mm	
仪器功率	0.5W	
环境温度	40℃	
环境湿度	≤85%RH (无冷凝)	

测定项目

序号	项目名称	分析方法	测量范围 (mg/L)
1	COD	快速消解分光光度法	0-15000

