HACH LABORATORY QUICK GUIDE FOR POWER APPLICATIONS

From process monitoring to laboratory verification, Hach is your trusted partner, assuring maximum uptime through preventive protection and superior service. The comprehensive selection of chemistries, spectrophotometers, electrochemistry meters and probes, and benchtop analysers provides the broadest range of analyses in the industry.

DR3900 Spectrophotometer and Chemistries

DR-Series Spectrophotometers and Hach chemistries are built on over 7 decades of water quality innovation to provide the most accurate and reliable results.

Titralab AT1000

The Titralab Analyser is a one touch automatic titrator. Application packages cover a range of common power generation parameters including pH, alkalinity, and hardness

HQ440d Meter

Hach HQD meters and versatile assortment of Intellical probes bring simplicity and consistency to electrochemical measurements.

QBD1200 TOC Analyser

The QBD1200 TOC Analyser reduces procedural steps by 90 %, automates calibration, and reduces reagent costs by 60 %. With the QBD1200, TOC analysis becomes a routine measurement.

HACH®

Be Right™

Spectrophotometric Measurements

Parameter	Platform	Method	Range*
Silica	DR-Series Spectrophotometer	8282/8186/8185	3-100000 µg/L SiO_2
Iron (Total)	DR-Series Spectrophotometer	10263/8147	1-1400 µg/L Fe
Copper	DR-Series Spectrophotometer	8143/8506	1-5000 µg/L Cu
Molybdenum	DR-Series Spectrophotometer	8169/8036	0.02-40.0 mg/L Mo
Ammonia	DR-Series Spectrophotometer	10205	0.015-47 mg/L NH_3-N
Phosphate	DR-Series Spectrophotometer	10210	0.15-60 mg/L PO_4
Chlorine	DR-Series Spectrophotometer	8021/10069	0.02-10.0 mg/L Cl_2
Hardness	DR-Series Spectrophotometer	8374/8030	4-4000 µg/L $CaCO_3$
Hydrazine	DR-Series Spectrophotometer	8141	4-600 µg/L N_2H_4
Oxygen scavengers	DR-Series Spectrophotometer	8140	varies by analyte

**Ranges reflect multiple chemistries. See Water Analysis Handbook for details.*

Electrochemical Measurements

Parameter	Platform	Method	Range
pH	HQD-Series Meter	PHC281	0-14 pH
Conductivity	HQD-Series Meter	CDC401	0.01-200000 µS/cm
DO	HQD-Series Meter	LDO10101	0.05-20.00 mg/L O_2
Redox/ORP	HQD-Series Meter	MTC101 ORP	±1200 mV
Ammonia	HQD-Series Meter	ISENH3181	0.01-14000 mg/L NH_3-N
Sodium	HQD-Series Meter	ISENA381	0.023-23000 mg/L Na
Chloride	HQD-Series Meter	ISECL18101	0.1-35500 mg/L Cl

Analysers

Parameter	Platform	Method	Range
pH	AT1000	Potentiometry	0-14 pH
Alkalinity	AT1000	Potentiometry	20-1000 mg/L $CaCO_3$
Conductivity	AT1000	Potentiometry	0.01-200000 µS/cm
Hardness	AT1000	Potentiometry	20-360 mg/L $CaCO_3$
Chlorine	AT1000	Amperometry	0.003-5 mg/L Cl_2
Turbidity	2100AN Nephelometer	Nephelometry	0.01-10000 NTU
Total Organic Carbon	QBD1200 Analyser	UV/Persulfate	0.4-100 mg/L TOC

Microbiological Measurements

Parameter	Platform	Method	Range
Total Aerobic Bacteria	Paddle Test	DOC316.53.01223	10^2-10^7 CFU

DOC062.52.20210.Aug15