

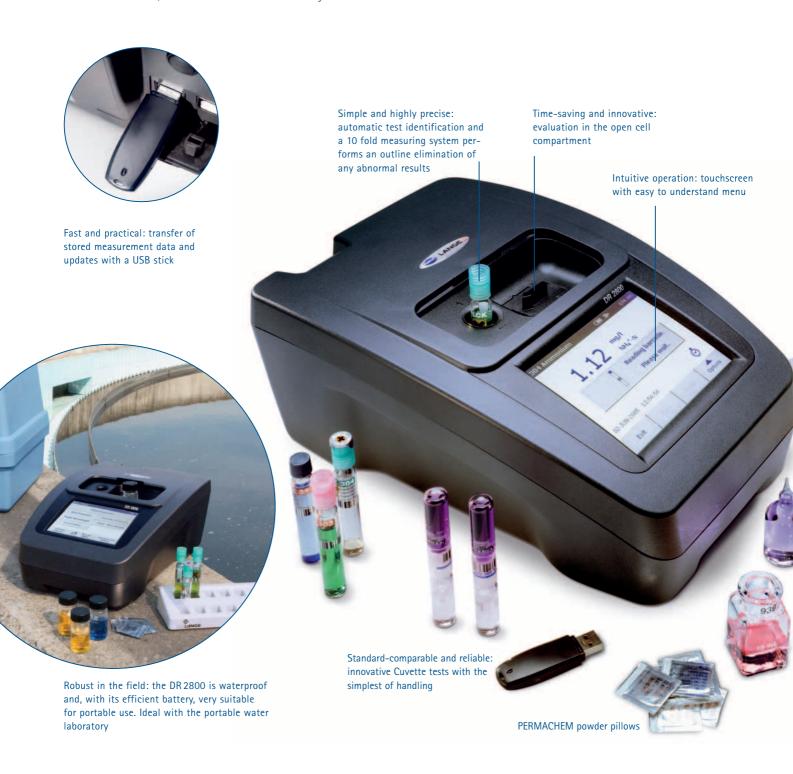
## A new dimension in flexibility

**DR 2800 Spectrophotometer for water analysis** 



# Incomparable flexibility—systematic water analysis with DR 2800

Wastewater, drinking water and process water—the HACH LANGE system stands for optimal water analysis. A unique selection of perfectly harmonised components guarantees individually accurate solutions. Its rugged design and intuitive handling make the DR 2800 the ideal spectrophotometer for economical, efficient and routine analysis.



## **Competence in water analysis**

#### Photometer

DR 2800—the specialist for water analysis in the laboratory and in the field.

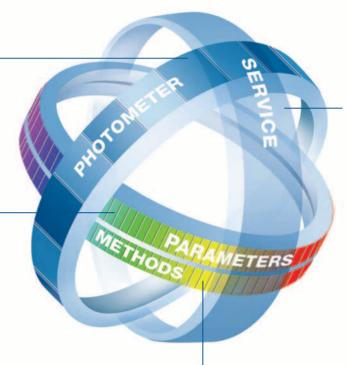
- → More than 200 preprogrammed tests
- → Automatic test identification
- → 50 user methods
- → Waterproof (IP 41)

#### **Parameters**

All key parameters from Ammonium to Zinc:

- → Sum parameters—COD/BOD/TOC
- → Nutrients
- → Metals
- → Disinfectants
- → Surfactants and many more
- → Including sample preparation
- → Including quality assurance

For wastewater, drinking water and process water



### THE HACH LANGE SYSTEM FOR WATER ANALYSIS

#### **Services**

- → On-site support by the Technical Customer Service
- → Own service technician and maintenance contracts with warranty extension
- → Legal compliance and environmental protection through collection of used reagents
- → Comprehensive web site with downloads and shop
- → Regular customer information by post and email

#### All methods in one instrument

From fast screening tests to standard-comparable analysis:

DRINKING WATER,
WASTEWATER
COOLING WATER AND BOILER WATER

CUVETTE TEST
ACCUVAC
PERMACHEM

Automatic result assurance

Manual result assurance



1-inch cells

Uniquely flexible: DR 2800 and the proven reagents from HACH LANGE with a wide variety of methods and parameters

## Especially robust in the laboratory and in the field

The reliable optical system of the compact DR 2800 ensures precise results. Each wavelength is individually selectable, 50 user methods and up to 500 measured values can be accommodated in the data storage. Thanks to the variety of cell sizes, a wide range of measured parameters can be covered, from trace analysis to high concentrations in electroplating baths. Easily understandable menus and the large touchscreen minimise familiarisation and prevent errors from occurring.

# The ultimate in simplicity— Cuvette tests with laser identification

Just insert the cuvette—everything else is automatic. A laser identifies the cuvette from its barcode. The DR 2800 calls up the correct test data. As the cuvette rotates, it is measured 10 times and any readings that are distorted by soiling on the cuvette are automatically eliminated. The measurement result is shown immediately in mg/l. All without even having to push a button!

## **Technical data**

DR 2800 Spectrophotometer	Model no. LPV422
Applications	Municipal and industrial wastewater, drinking water, sur-
	face water, water treatment, process water, production
	control
Readout modes	Absorbance (± 3 E), Transmittance (%), Concentration
Wavelength range	340 – 900 nm (tungsten lamp)
Reference beam technology	To compensate for ageing of the lamp and power
	fluctuations
Integrated Barcode	For automatic identification of LANGE Cuvette Tests, with
Reading System (IBR)	10 measurements during one rotation and outlier elimination
Cells	Cell holder for LANGE Cuvette Tests with IBR system
	Cell holder for 10-mm, 50-mm and 1-inch rectangular cells
	and 1-inch round cells
Display	High-resolution LCD (320 x 240 pixel),
	switchable backlighting, touchscreen
Data storage	Up to 500 measured values
	50 user methods
	More than 200 preprogrammed HACH and LANGE method
Ports	USB port for PC, printer, USB stick
	Optional: Software for direct data transfer to PC
Protection class	IP 41
Power requirement	100 – 120 V; 200 – 240 V; 50/60 Hz; automatic switching;
	including plugs for all European power networks
Battery (optional)	Lithium battery for up to 40 h of operation
Ambient temperature	10 – 40 °C, 0 – 90 % rel. humidity
Dimensions (WxHxD)	22 x 13.7 x 33.2 cm
Weight	4 kg (without hattery)

Subject to change.

Nitrate TOC
Hardness TNb Ammonium
COD Phosphate Surfactants
Organic acids Metals Chlorine

And many more