



WT/55110

Spectral Photometer, DR 3900 with RFID* technology

Pre-programmed with all HACH analysis methods, for the analysis of waste water, drinking water and cooling/boiler water.



Traceability starts with sampling

Reduce errors. Use RFID* technology and trace samples back to the sample location. All important information, such as the sample location, sample taker, date and time are saved on an RFID* tag on the sample bottle. This data can be transferred to the laboratory in seconds using RFID* in the DR3900.

Rapid data updates

Programming of methods into a spectrophotometer has never been so easy. Simply hold the cuvette test box in front of the DR3900 RFID* module, wait for the signal tone and it's done. Measurement begins straight away with accurate evaluation data for an accurate result.

Data transfer is simple via USB or Ethernet

Transfer measurement data easily via a USB stick or an Ethernet connection. The same applies for software updates. The DR3900 can install the most up-to-date device software from the Hach website via Ethernet, so your photometer always has the latest update.

Quality assurance made easy with AQA+

QA procedures can now be easily defined and documented within the instrument without additional software. Current batch certificates (for the purpose of GMP/GLP results documentation) can be found on the RFID* tag on the cuvette box. Thanks to this RFID* technology, all batch-specific information can be retrieved immediately on the DR3900 and printed out.

Alignment of laboratory and process analysis

Compare the process result with the laboratory reference value in the photometer via the LINK2SC connection between the SC controller and the DR3900. Data can be exchanged via Ethernet bi-directionally, eg. matrix corrections from process probes can be sent directly from the laboratory.

IBR+ increases the reliability of your measurement values

Lot number and expiry date information is now included on the 2D barcode, this additional information is transferred to the instrument and documented with the measurement value.

Technical Specifications

Display mode	Transmission (%), absorbance and concentration, scan	
Light source	Halogen lamp	
Beam projection	Spectral reference beam technology	
Wavelength range	320 to 1100nm	
Wavelength accuracy	±1.5nm (Wavelength range from 340 to 900nm) Wavelength reproducibility	
Wavelength resolution	1 nm	Wavelength calibration and selection Automatic
Spectral bandwidth	5nm	
Photometric measurement range	±3.0 Abs (wavelength range from 340 to 900nm) Photometric accuracy	
Photometric linearity	5 mAbs at 0.0 to 0.5 Abs, 1% at 0.5 to 2.0 Abs	
Scattered light	0.1% at 340nm with NaNO ₂	
Display	7 TFT WVGA colour touchscreen (800 × 480 pixels)	
Data storage	2000 measurement data (result, date, time, sample ID, user ID)	
Preprogrammable methods	>220	
User programme	100	
Cuvette compatibility	13mm round cell, 1cm and 5cm rectangular cell, 1-inch round cell, 1-inch rectangular cell	
Dimensions (H×W×D)	151x 350 x 255mm	
Weight	4200g	
Operating conditions	-10 to 40°C, max. 80% relative humidity (non-condensing)	
Storage conditions	-30 to 60°C, max. 80% relative humidity (non-condensing)	
Enclosure rating	IP30	
Power supply	Table power supply, 110 to 240V; 50/60Hz	
Interfaces	USB type A (2), USB type B, Ethernet, RFID* module	

Cat. No.	Description
WT/55110	DR 3900 spectral photometer with RFID* technology Product contents: Adapter A for 1 round and ACCUVAC/1cm rectangular cells, basic handbook, CD with handbook and work processes in 5 languages (GB, D, F, I, E) in PDF format, EU power pack, user RFID* tag
Accessories	
WT/55118	1 square sample cells, 10ml. Matched pk/2
WT/55120	SIP 10 sipper module
WT/55122	SIP 10 tube kit, Lagoprene + Tygon
WT/55124	2m Ethernet cable
WT/55126	USB memory stick