



DR/890 Portable Colorimeter

Product #: 4847000

 **Hazardous**

OBSOLETE ITEM
This item is no longer available.

Items with this mark may be considered hazardous under some shipping conditions.

Suggested replacements:

- 9385100

If necessary, we will change your selected shipping method to accommodate these items.

Standard features of the DR/800 Portable Colorimeter Series: three models (20, 50, or 90 methods) with automatic wavelength selection
Preprogrammed: ready-to-use out of the box
Compact: true hand-held analysis, for use anywhere
Rugged: dustproof, waterproof, shockproof, worry-free (designed to meet IP67 standards)
Powerful: full datalogging and RS232 interface capabilities
Simple: menu-driven, step-by-step analysis
Affordable: choose the instrument you need or select a complete portable laboratory Batteries-/Accu operation possible, Real-Time-Clock, integrated Timer, Data Memory with 100 measuring values and automatic AutoOff-Function. Wavelengths: 420 nm, 520 nm, 560 nm and 610 nm.

Dustproof, waterproof, shockproof, and worry free

Depending on your testing needs, you can select a DR/820, DR/850 or DR/890 Colorimeter, preprogrammed to test for at least 20, 50 or 90 parameters, respectively. All three models include the same convenient features: auto-wavelength selection, datalogging capabilities and user-generated calibrations.
These durable, hand-held, filter photometers are designed specifically for the rigors of on-site testing, with rugged components and waterproof, dustproof, chemical-resistant housings. DR/800 Series Colorimeters offer simple, push-button program selection and step-by-step prompts that guide users through the testing procedure. These instruments are equally appreciated by experienced analysts who value test efficiency and by operators who require ease of use with accurate results.

High-value, high-capability field instruments for water quality analysis

Easy-to-use software offers push-button method selection, automatic wavelength selection and a preprogrammed method timer. Result, units, and parameter name are displayed immediately, with no countdown. The large digit display is very easy to read. Datalogging capability includes push-button record management. Easily store data in the field for later access, with no delay in testing. The instrument stores up to 99 measurements in an internal, non-volatile memory. Data stored includes date/time, parameter, program number, concentration/absorbance/%T, sample number, and instrument serial number.

More Advanced Features that Add Value

Results are displayed directly in units of concentration, absorbance, or % transmittance. In many methods, concentration in alternate chemical forms is also available. For example, phosphate readings are available as P, PO₄ and P₂O₅. Displayed results can be changed from one form to the next at the touch of a button.
User-program feature allows users to generate up to 10 custom procedures, with up to 12 data points each, and store them in a non-volatile instrument memory for later use.
Advanced software includes automatic correction for reagent blanks and the option to fine-tune calibration curves with the standard adjust feature.
Batteries provide self-contained power for field-testing.

Accessories Simplify Data Management

The Data Transfer Adapter (DTA) fits on the colorimeter and accepts data sent from the instrument's infrared LED transmitter. The DTA converts data to a standard RS-232 format and connects directly to a computer or printer. Data can be printed or downloaded conveniently, after storage or during collection.

DR/800 Series Colorimeters are compatible with HachLink™ Software, a Microsoft® Windows® compatible application that links instrument and computer, providing a convenient means of accessing and managing test data. Information including date/time, parameter, concentration/

absorbance/%T, sample number, operator identity, and instrument serial number is accepted and stored in either text or tabular (spreadsheet) format, and can be easily transferred to popular spreadsheet or word-processing applications.

Easy Quality Control

DR/Check™ ABS Standards are the optional choice to verify the performance of your DR/800 Colorimeter in seconds. Standards are formulated with neutral density gel that produces similar absorbance readings at any wavelength. For all parameters at all wavelengths, running three secondary absorbance standards will verify your instrument's calibration easily, anytime.

Specifications

Beam Height:	5
Display:	LCD, shows results, parameter, name, and unit
Display Size:	38 mm x 64 mm (1.5 in x 2.5 in)
Display Type:	monochromatic (black)
Includes:	DR/800 Colorimeter, two 1-inch glass sample cells marked at 10, 20 and 25 mL, two 1 cm plastic sample cells, 1 x 16-mm COD/Test 'N Tube™ adapter, 4 AA alkaline batteries, instrument and procedure manuals. European CE mark.
Manual Languages:	English, German, Italian
Operating Temperature Range:	0 to 50 °C
Optical System:	0 / 180 transmittance
Photometric Accuracy:	± 0.005 Abs at 1.0 Abs
Photometric Linearity:	± 0.002 Abs (0 - 1 Abs)
Photometric Measuring Range:	0 to 2 Abs
Sample Cell Compatibility:	1 in and 16 mm round vial (16 mm with adapter)
Source Lamp:	LED
User Interface:	16 key
User Interface Languages:	English
User Programs:	10 user entered programs, 12 data points each
Warranty:	1 year
Wavelength Accuracy:	± 1 nm Fixed Wavelength, varies with model
Wavelength Range:	420, 520, 560, 610 nm
Wavelength Selection:	Automatic based on test selected

What's in the box?

Each DR/800 Series Colorimeter comes with two 1-inch glass sample cells marked at 10, 20 and 25 mL, two 1 cm plastic sample cells, a 16-mm COD/Test 'N Tube™ adapter, 4 AA alkaline batteries, and illustrated instrument and procedure manuals. European CE mark.