SPECTROPHOTOMETER MODEL AL800

Compact spectrophotometer for water and wastewater testing - 330 - 900 nm

APPLICATION FIELDS

- Waste Water
- Drinking Water
- Industrial Process Water
- Scientific & Research
- Governmental and Private Laboratories

ADVANTAGES / FEATURES

Multifunctional sample chamber
Round cuvettes measuring 16 mm and 24 mm in diameter and rectangular cells with pathlengths from 10 to 50 mm may be used without an adapter. Only the 10 mm cell will be fixed by a little holder that must inserted into the sample chamber.

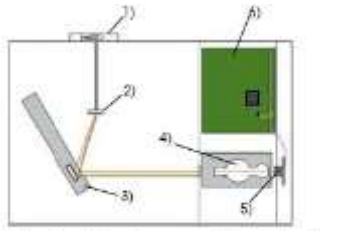
Wide range of parameters + 35 user-specific methods
Wide range of pre-programmed methods using tube tests, tablet reagents, liquid reagents and powder reagents.
In addition to the pre-programmed methods, the user can also program 35 own methods (10 user concentration methods and 25 user polynomials).

Power supply
The required input voltage is 12 V. The AL800 is connected to an external power pack as standard. Battery operation is also possible by using an external energy station (optional equipment).

Interface RS232 Data transfer
The RS232 interface on the back allows direct connection and data transfer to a PC or printer with serial interface. Up to 1000 records can with date, time, running test and code number as well as the measuring range and the method number.

Large illuminated display - Touch-sensitive keypad
The AL800 is equipped with a touch-sensitive film keypad with logical layout. Easy access to menus and functions.
Multiple languages: English, French, Italian, German, Spanish and Portuguese.

N.I.S.T. (National Institute of Standards and Technology) Traceability
The device can be calibrated by the user with a secondary standard filter set which can be traced back to N.I.S.T. are. The user can set the device in "user adjustment mode" for each method with standards traceable to N.I.S.T. Adjust.



The AL800 is a single-beam spectral photometer.
The light source is a tungsten halogen lamp with flash function. The lamp is switched on only momentarily during the measurement process, so there is no need for a warm-up period. The AL800 is ready to perform a self-test as soon as it is switched on. The light passes through an entry slot to the monochromator, where it is split into spectral ranges. The monochromator is a holographically produced, transparent grating. The movable mirror ensures that light of the desired wavelength is focused automatically so that it passes through the exit slot, into the sample chamber and therefore through the water sample. The light that is not absorbed by the sample travels to the silicon photodiode detector. This signal is then evaluatedby a microprocessor and shown as a result in the display.

TECHNICAL SPECIFICATIONS

Wavelength range:	330 to 900 nm
Photometric range:	-0.3 to 2.5 Abs
Spectral bandwidth:	10 nm
Wavelength accuracy:	±2 nm
Wavelength reproducibility:	±1 nm
Light source: Monochromator:	Pre-adjusted tungsten halogen lamp Holographic grating
Detector:	Silicon photodiode
Multifunctional sample chamber:	Round cuvettes 24 and 16 mm Ø, Rectangular cells 10-50 mm

Display Backlit:	LCD graphic display
Language options:	English, French, Italian, German, Spanish, Portuguese
Storage capacity:	1000 test data sets
Serial interface:	RS232
Dimensions (L x W x H):	10.6 x 10.8 x 5.9 in (270 x 275 x 150 mm)
Weight approx.	7 lbs (3.2 kg)
Approval:	CE
Power supply:	Input : 100 - 240 V ~ unit 1.0 A 50 - 60 Hz Output: 12 V .... 30 W

List of the pre-programmed parameters:

Alkalinity-M
Alkalinity-P
Aluminium
Ammonia
Arsenic
Boron
Bromine
Cadmium
Calcium Hardness
Chloride
Chlorine
Chlorine Dioxide
Chromium
COD
Color Hazen (Pt-Co-Units ; APHA)
Copper
Cyanide
Cyanuric acid
DEHA
Fluoride
Formaldehyde
Hydrazine
Hydrogen Peroxide
Iodine
Iron (Fe2+, Fe3+), soluble
Lead
Manganese
Molybdate / Molybdenum
Nickel
Nitrate
Nitrite
Ozone
pH-value
Phenols
Phosphate, ortho and total
Phosphonate
Potassium
Silica
Spectral Absorption-Coefficient
Sulphate
Sulphide
Sulphite
Surfactants (anionic, cationic, non ionic)
Suspended Solids
TOC
Total Hardness
Total Nitrogen
Turbidity / suspended solids (attenuated radiation method)
Urea
Zinc

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