

PORTABLE NUMERICAL PHOTOMETER

ODEON-PHOTOPOD

NUMERICAL TECHNOLOGY FOR MULTIPLE COMBINATIONS



- Unique solution for field application: physic-chemistry and photometry,
- More than 50 parameters measured by photometry and 10 by physico-chemical technology,
- Automatic selection of the wavelength,
- Exceptional logger capacity (100 000 measures),
- Digital probes « plug and play »

Companies **PONSEL MESURE** and **ORCHIDIS laboratoire (AQUALABO Group)** innovate and introduce their new digital portable photometer dedicated to water quality control: the PHOTOPOD. Developed to provide a solution both for field and laboratory measurement requirements, the set ODEON-PHOTOPOD is an innovative and unique offer, making an exclusive link between a compact, strong and watertight photometer with a physico-chemical multiparameter portable device.

The ODEON-PHOTOPOD is well adapted and designed for people who are not chemists thanks to the simple and easy to make analysis methods. Associated with the "plug and play" digital sensors technology, the ODEON-PHOTOPOD is an intelligent solution, reliable, and is the perfect system to fulfill all your needs. This instrument can be used for many kind of water analysis urban, municipal and industrial waste water,, drinking water, boiler and cooling tower water, fish farming, natural waters...

➤ Photometer PHOTOPOD

■ Intelligent and compact photometer

- Photometer with LED technology for water analysis
- Minimal dimensions and optimized manipulations,
- Strong and waterproof Fischer Metallic connections.



Technical characteristics of PHOTOPOD	
Type of device	microprocessor based photometer with LED technology for water analysis
Wavelength	639 nm, 591 nm, 518 nm, 468 nm, 400 nm
Detector	Silicon Photocell
Cuvette	Round shaped 16mm diameter
More than 50 parameters analyzable	Isocyanuric acid, Al, Br ₂ , BZ ₃ Azol, Cl ⁻ , Cl ₂ , ClO ₂ , CN ⁻ , Cr ⁶⁺ , Cr, Cu, DCO, N ₂ H ₄ , NH ₄ ⁺ , N, Ni, NO ₂ ⁻ , NO ₃ ⁻ , O ₃ , pH, PO ₄ ³⁻ , P ₂ O ₅ , P _{tot} , SiO ₂ ...
Versions	Urban WWTP, Small WWTP Residual water Drinking water Boiler room
	NH ₄ ⁺ , NO ₃ ⁻ , PO ₄ ⁻ DCO, NH ₄ ⁺ , NO ₃ ⁻ , NO ₂ ⁻ , P _{total} , SO ₄ ²⁻ , Turbidity NH ₄ ⁺ , NO ₃ ⁻ , Fe, Cu, Mn, Cl ₂ , CN ⁻ , ClO ₂ , SO ₄ ²⁻ , TH, TA, TAC PO ₄ , N ₂ H ₄ , DEHA, Fe, Cl ₂ , Br ₂ , Cu, Mn, Mo, NO ₂ ⁻ , SiO ₂ , SO ₄ ²⁻ , Zn, TH, TA, TAC, Benzotriazol, phosphonates
Adjustment of the wavelength	Automatic
Blank's measure	Electronic memorization
Measure	Direct in concentration, in absorbance or in transmittance
Signal interface	Numerical RS-485
Connection	ODEON PC connection with software of transfer
Dimensions	Height max : 62 mm ; Length x Width : 96x58 mm
Material in contact with the middle	ABS
Indice of protection	IP67

ODEON can be also connected to the whole range of digital sensors PONSEL: sensor OPTOD (Optical Oxygen), PH / REDOX, C4E (Conductivity / Salinity / TDS), NTU (Turbidity NTU / mg / L).



➤ Portable laboratory :

For its analyses, the PHOTOPOD uses the ORCHIDIS solutions. The liquid reagent or pills in tablets are very easy to use, for fast and reliable results.

The set is available in the form of suitcase containing ODEON, PHOTOPOD, digital sensors and all the solutions and necessary reagent for your analyses, constituting a real portable laboratory.

➤ List of measured parameters :

ITEM REFEREN CE	DESCRIPTION	OPERATING DATASHEET
1MT001	ALUMINIUM TEST MODULE - Range 0,02-0,30 / 0,2-3,0 mg/L Al - 100 tests	MOP001-2
1MT002	AMMONIUM TEST MODULE -600/150 Tests ranges 1-30 mg/L NH ₄ 1,0-24,0 mg/L N-NH ₄ 0,3-6,0 mg/L NH ₄ 0,3-4,8 mg/L N-NH ₄	MOP004 MOP003 MOP004-b MOP004-b
1MT004	BROMINE TEST MODULE- Range 0,2- 6,0 mg/L Br₂ - 250 tests	MOP007
1MT116	FREE CHLORINE DPD TEST MODULE -250 Tests Ranges 0,05- 1,00 mg/l Cl ₂ , 0,5-6,0 mg/l Cl ₂	MOP011 - MOP14 MOP012-MOP15
1MT007	TOTAL CHLORINE DPD TEST MODULE-250 Tests Ranges 0,05 - 1,00 mg/l Cl ₂ , 0,2-6,0 mg/l Cl ₂	MOP011-MOP14 MOP012-MOP15
1MT009	CHROME VI HEXA TEST MODULE - Ranges 0.1-4,0 mg/L Cr⁶⁺ - 100 tests	MOP018
1MT011	COPPER TEST MODULE - Range 0,2- 5,0 mg/L Cu - 100 tests	MOP019
1MT012	CYANIDES TEST MODULE - Ranges 0,02-0.5 mg/L CN⁻ - 75 tests	MOP020
1MT017	IRON TEST MODULE - Range 0,2-10,0 mg/L Fe - 100 tests	MOP027
1MT019	HYDRAZINE TEST MODULE - Range 0,1-1,0 mg/L N₂H₄- 80 tests	MOP029
1MT024	MOLYBDATE TEST MODULE - Range 5-100 mg/L MoO₄ - 100 Tests	MOP033
1MT027	NITRITES TEST MODULE- Ranges 0,05-2,00 mg/L NO₂⁻ - 0,01-0,60 mg/L N- NO₂⁻ / 120 tests	MOP037 MOP038
1MT029	MODULE TEST OZONE - Ranges 0,1-2,7 mg/L O₃ - 100 Tests	MOP045
1MT030	O-PHOSPHATES TEST MODULE (Blue)-600/120 Tests Ranges 0,2-5,0 mg/L PO ₄ - 600 tests 1-40 mg/L PO ₄ - 120 tests 0,10-1,60 mg/L P-PO ₄ - 600 tests 0,5-13 mg/L P-PO ₄ - 12 tests	MOP041b MOP041 MOP041b MOP040
1MT031	O-PHOSPHATES TEST MODULE (Yellow)-100 Tests Ranges 3-125 mg/L PO ₄ 1-40 mg/L P-PO ₄	MOP042 MOP043
1MT032	PHOSPHONATES TEST MODULE ECS - 100 Tests Ranges : 1-40 mg/L PO ₄ 0,5-13 mg/L P-PO ₄ 1,0-36,0 mg/L P ₂ O ₅	MOP050 MOP051 MOP053
1MT033	PHOSPHONATES TEST MODULE (yellow)- 100 Tests Ranges 3-125 mg/L PO ₄ 1-40 mg/L P	MOP049 MOP052
1MT036	PH TEST MODULE - Range : 6,8-8.6 - 80 tests	MOP047

1MT040	SILICA TEST MODULE - 80 tests Ranges 0,2-10,0 mg/L SiO ₂ 10-300 mg/L SiO ₂	MOP061b MOP061
1MT041	SULFATES TEST MODULE (Pills) – Range 10-200 mg/L-250 Tests	MOP062
1MT043	ZINC TEST MODULE- Range 0,1-4,0 mg/L Zn - 100 tests	MOP069
1MT044	CHLORIDE TEST MODULE - 100 tests Ranges 1-50 mg/L Cl- 20-500 mg/L Cl-	MOP016b MOP016_9
1MT045	TA TEST MODULE - 2-50°F - 250 Tests	MOP064
1MT046	TAC TEST MODULE - 2-50°F - 250 Tests	MOP065
1MT047	TOTAL TH TEST MODULE - 2-40 °F- 250 Tests	MOP066
1MT048	MODULE TEST AC ISOCYANURIQUE - Range 10-200 mg/L- 100 tests	MOP100
1MT050	MODULE TEST MANGANESE - Range 0.2-5,0 mg/L Mn - 150 Tests	MOP031/032
1MT051	TOTAL NITROGEN TEST MODULE - Range 1-25 mg/L N - 50 Tests	MOP006B
1MT052	TOTAL NITROGEN TEST MODULE - Range 5-100 mg/L N - 50 Tests	MOP006H
1MT053	CODB TEST MODULE - Range 10-150 mg/l COD - 25 tubes test	MOP021
1MT054	CODM TEST MODULE - Range 0,01-1,5 g/l COD - 25 tubes test	MOP022
1MT055	CODH TEST MODULE - Range 1,0-15,0 g/l COD - 25 tubes test	MOP023
1MT068	O-PHOSPHATES ECS – 1,0-36,0 mg/L P₂O₅ - 120 Tests	MOP044
1MT069	CHLORINE DIOXINE MODULE - Ranges 0.5-10,0 mg/L ClO₂ - 250 tests	MOP024
1MT075	TOTAL PHOSPHORUS TEST MODULE – 1,0-15,0 mg/L P - 50 tubes tests	MOP054
1MT076	TOTAL PHOSPHORUS TEST - 0.10-1.50 mg/L P - 50 tubes tests	MOP055
1MT078	Benzotriazole TEST MODULE - 1-16 mg/L BZ3Azol - 100 tests	MOP070
1MT079	NICKEL TEST MODULE – 0,1-5,0 mg/L Ni - 100 tests	MOP071
1MT080	SULFATES TEST MODULE (TURBID) - 10-400 mg/L SO₄ - 250 tests	MOP072
1MT101	NITRATES TEST MODULE - 100 tests Ranges 0,5-5,0 mg/L NO ₃ 4-100 mg/L NO ₃ 20-200 mg/L NO ₃ 0,1-1,0 mg/L N-NO ₃ 1,0-22,5 mg/L N-NO ₃ 4,5-45,0 mg/L N-NO ₃	MOP035b MOP036c MOP036b MOP035b MOP035c MOP036b
1MT110	FLUORIDES TEST MODULE - 0,1-2,0 mg/l - 20 tubes test	MOP073
1MT112	DEHA TEST MODULE - Range 0.02-1 mg/L DEHA- 100 tests	MOP074