

MD450 MULTIPARAMETER BENCH PHOTOMETERS

MD450 is a modern highperformances photometer waterproof keyboard release with wide graphic display. Microprocessor unit up to 54 pre-configured analysis, COD analysis included, and upgradable by software way. Proven range of reagents on stick tablets, liquid or powder dosing. Optical LEDs sourcing temperature compensated. Wavelengths: 430, 530, 560, 580, 610, 660 nm. RS232 communication interface to printer and PC. Ready for use. Carrying case includes: photometer, 7 rechargeable batteries included, 3 vials of 24 mm, 3 vials of 16 mm, 1 adapter for 16 mm vials, 3 syringes of various sizes, 1 cup 100 ml plastic. Italian or English manual instruction with analysis description. Without reactive.



TECHNICAL SPECIFICATIONS

Display	Graphic
Optics	up to 6 LED temperature compensated, internal reference channel, photodiode in the sample chamber shielded
Wavelengths	6 wavelengths in a unit: 1 = 430 nm $\pm$ 5 nm 2 = 530 nm $\pm$ 5 nm 3 = 560 nm $\pm$ 5 nm 4 = 580 nm $\pm$ 5 nm 5 = 610 nm $\pm$ 5 nm 6 = 660 nm $\pm$ 5 nm
Interface	RS232 for printer and PC connection
Data download	Methods and software can be updated by Internet
Operativity	Touch-sensitive keypad with audible alert. Resistant to acids and solvents.
Supply	7 Mignon Ni-Cd AA / rechargeable
Dimensions (W x D x H)	265 x 195 x 70 mm
Weight:	1 kg
Environmental conditions	Up to 90% humidity (non-condensing). Temperature 0... 50°C
Auto-off	After about 20 min the last touch of a button, without data loss
Self-control	Pressing the ON / OFF
Storage capacity	approximately 1000 data sets with date, time and registration number
Approval	EC EN 61326 1997, A1:1998
Certifications:	A2:2001, A2:2003 class B, EN, 61000-4-3:1996 EN 61000-4-2:1995
Accessories:	Standard kit wavelength verification 0, 430, 530, 560, 580, 610 and 660 nm



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Parameter	nm	Method	Range
Cyanuric Acid	530	melamine	2-160 mg/l
Alkalinity-m (total)	610	Acid / Indicator	5-200 mg/l
Alkalinity-p	560	Acid / Indicator	5-500 mg/l
Aluminium (Vario)	530	Eriocromocianina	R 0.01-0.25 mg/l
Aluminium	530	Eriocromocianina	R 0.01-0.3 mg/l
ammonia	610	indophenol	0.02-1 mg/l
ammonia LR	660	salicylate	0.02-2.5 mg/l
ammonia HR	660	salicylate	1-50 mg/l
Nitrogen Total LR	430	persulfate digestion	0.5-25 mg/l
Nitrogen Total HR	430	persulfate digestion	5-150 mg/l
Biguanide (PHMB)	560	Buffer / indicator	2-60 mg/l
Bromo	530	DPD	0.05 to 13 mg / l
chlorine	530	DPD	0.02 to 6 mg / l
chlorine	530	DPD	0.02 to 4 mg / l
Chlorine (Vario)	530	DPD	0.02 to 2 mg / l
Chlorine HR (KI)	530	KI / Acid	5-200 mg / l
chlorine dioxide	530	DPD	0.05 to 11 mg / l
chlorides	530	Ag nitrate / turbidity	0.05 to 25 mg / l
COD LR	430	Bicromato/H2SO4	0-150 mg / l
COD MR	610	Bicromato/H2SO4	0-1500 mg / l
COD HR	610	Bicromato/H2SO4	0-15000 mg / l
Calcium Hardness	560	Murexide	50-900 mg / l
Total Hardness	560	Metaltalato	2-50 mg / l
Ferrous - Ferric	560	PPST	0.02-1mg / l
ferrous	560	PPST	0.02 to 1 mg / l
Ferrous ferric Vario	530	1,10-Phenanthroline	0.02 to 3 mg / l
Ortho-phosphate	660	Phosphomolybdic blue / ac ascorbic	0.05 to 4 mg / l
Ortho-phosphate (Vario PHOS3)	660	ascorbic Acid	0.06 to 2.5 mg / l
Ortho-phosphate (Vario RGT)	660	ascorbic Acid	0.06 to 5 mg / l
Acid hydrolyzable phosphate / total	660	Digest. persulfate / ascorbic ac	0.02 to 1.6 mg / l (acid) 0.02 to 1.1 mg / l (Total)
Total Phosphates (Vario RGT)	660	Digest. persulfate / ascorbic ac	0.02 to 1.1 mg / l
fluoride	580	SPADNS	0.05-2 mg / l
hydrazine	430	dimethylaminobenzaldehyde	0.05-0.5 mg / l
Hydrogen peroxide (H 2 O peroxide)	530	DPD / Catalyst	0.03 to 3 mg / l
iodine	530	DPD	0.05 to 3.6 mg / l
manganese	530	formaldoxime	0.2-4 mg / l
Manganese (Vario)	560	PAN	0.01 to 0.7 mg / l
molybdates	430	thioglycolate	1-50 mg / l
nitrate	430	chromotropic acid	1-30 mg / l
nitrite	560	N (1-naphthyl) ethylenediamine	0.01-0.5 mg / l
oxygen activities	530	DPD	0.1-10 mg / l
ozone	530	DPD / glycine	0.02 to 1 mg / l
pH	580	red bromocresol	5.2 to 6.8
pH	560	phenol red	6.5 to 8.4
pH	560	Phenol red (solution)	6.5 to 8.4
pH	580	thymol blue	8.0 to 9.6
copper	560	Bichinolina	0.05-5 mg / l
silica	660	Silicomolibdato	0.05 to 4 mg / l
sulfates	530	Bariosolfato-turbidity	5-100 mg / l
sulfites	430	-	0.1 to 9 mg / l
urea	610	Urease / indophenol	0.1-3 mg / l
zinc	610	Zincon / EDTA	0.02 to 1 mg / l



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