Tecimicai Data			
Technology	μLFR* Technology, Batch, sequential for all MP versions		
Applications	Hydrology/Water Resources/Coastal monitoring		
Measurements frequency	Programmable		
Cycle time	MP4 Nutrients, 40 minutes, for a complete cycle, other		
Camples probabling	configurations from 40 to 60 minutes. Yes		
Samples preheating Max number of reagents	8 reagents + QC check solution and Wash solution		
Reagent stability	4-10 weeks, depending on the water temperature		
Deployment time	Up to 2.5 months		
Body material	PVC		
Max depth	-10m		
Operating temperature	4° - 40°C		
Wastes	n. 1 x 5L bag for wastes containing reagents, free waste for washings with DI Water & Sample		
Flow cell type	Quartz 4 measuring sides: 10mm x 2.5mm		
Detectors	- Standard Colorimetric methods: multi-beam fiber optic		
	colorimeter with silicon detector - Fluorimetric methods: LED/filters: Ex./Em. at specific		
	wavelength		
	- Turbidimetric: scattering at 800nm		
	- COD UV: LED 254nm corrected at 525nm		
	- TN/NO3 UV: Xenon flash lamp, filters 220 and 270nm		
Detector technology	LED/LED UV/UV filters		
Reading methods	Absorbance/Fluorimetry/UV/Nephelometry		
Reduction Module for NO3	Yes by UV photoreduction		
WIZ Control Panel Software	Compatible with Windows XP, 7.0 & 8.0, WIZ setup and		
	operations, data download to PC,		
QC solution	Concentrated for long term stability, diluted on line when required		
Off scale sample dilution and reanalyze	Yes		
Automated sample spike	Yes		
Calibration	Automated after reagent replacement		
Power supply	12VDC		
Power requirements	3W in Stand By, 8W (average) during analysis, max 1.5A; MP4 standard 0.46Ah		
Dimensions	Analytical unit: 140mm (diameter) x 535mm (height) Reagent canister (standard): 70mm (diameter) x 230mm (height)		
Connector	Submergible male 6 poles for RS232 and 12VDC power		
Cable	Submergible Standard length 10m female connector		
Data output	RS232		
Filtration options:	10/25/100/400uM with or w/o self cleaning, 0.25uM self purging microfilter		
Standard package:	 WIZ probe Reagents canister standard (Enlarged version on request) 12 VDC power supply for maintenance and setup Reagent bag filling tool 10 m submergible cable Carrying case Wiz control panel software license Start-up kit 		
Options	 Customized cable length Enlarged Reagent Canister Zetalog Zetaced setup and license 		
* Patented	Subject to change without notice		

* Patented



Subject to change without notice

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WIZ

PORTABLE IN-SITU PROBE FOR WATER ANALYSIS



WIZ CONTROL PANEL:

Control Panel (WCP) software package allows to setup any WIZ probe, using an RS-232 serial port; it can be used even remotely trough a GSM modem.

Main options:

- edit/modify the operating parameters
- display OD in real time during measurements
- set up monitoring parameters
- download memory buffer with measured data
- modify the measuring sequence for any method.

ZETALOG AND ZETACED

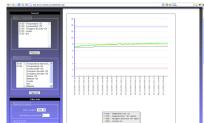
Zetalog and Zetaced are a unique package that allows to use WIZ at the higher level. Zetalog turn on WIZ just before the measurement cycle and turn it off as soon completed allowing power saving. Data are sent trough GPRS to Zetaced, running on a web server, where are logged and can be retrieved, validated and displayed as table or graphics trend.



ZETALOG 2.0

MP4 NUTRIENTS

STANDARD CONFIGURATIONS



ZETACED GRAPH TREND

NH3/NO2+NO3/NO2/PO4 NH3/NO2+NO3/PO4/SiO2 2/NO2 Н3 RTHO-P ITY

METHODS	CHEMISTRI	Typica Typica
MP4 ECO		TOC/COD/BOD/TURBIDI
MP3 PHOSPHORUS & AMMON	IIA	TP/PO4/NH3
MP4 PHOSPHOROUS		TP/P INORG./P ORGANIC/OR
MP3 NITROGEN		TN/NO2+NO3/NO2/NH
MP5 NUTRIENTS (Requires d	atalogger control)	NH3/NO2+NO3/PO4/SiO2/
MP4 NUTRIENTS & SiO2		NH3/NO2+NO3/PO4/SiC

METHODS	CHEMISTRIES	Typical Range	MDL
NH3-N	OPA - FLUORIMETRIC EX/EM.:370/420÷ 470nm	0-500ppb	<1
BOD	TRYPTOPHAN LIKE, FLUORIMETRIC EX/EM 280/360nm	0-20500mg/L	<1
TOC/COD	DIRECT READING AT 254NM, CORRECTION AT 550nm	0-50200mg/L	<1
NO3-N Colo	VANADIUM CHLORIDE REDUCTION TO NO2, SAA+NED	0-1000ppb	<2
NO3-N UV	DIRECT READING AT 220nm, CORRECTION AT270nm	0-10mg/L	<0.3
NO2-N	SAA+NED	0-250ppb	<1
PO4-P	MOLYDBATE/ASCORBIC ACID	0-1000ppb	<2
SiO2	SILICOMOLYBDATE/ASCORBIC ACID	0-2000	<3
TP	HT DIGESTION, UV OXIDATION, MOLYDBATE/ASCORBIC	0-1000ppb	<3
TN	UV OXIDATION TO NO3, UV PHOTOREDUCTION TO N2, NED+SAA	0-5.0mg/L	<0.05
TN - UV	UV OXIDATION TO NO3, DIRECT READING AT 220nm	0-10mg/L	< 0.3
TURB.	NEPHELOMETRIC AT 800nm	0-20500NTU	<1

WIZ **IN-SITU PROBE FOR WATER ANALYSIS APPLICATIONS**



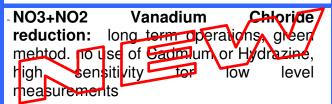
- Ammonia (N-NH₃)
- Orthophosphate (P-PO₄)
- Nitrate + nitrite N-(NO₃+NO₂)
- Nitrite (N-NO₂)
- Total Phosphorous (P)
- Total NItrogen (N)
- COD/TOC
- **BOD**
- Turbidity/TSS
- $Cr^{6+}/Fe^{2+}/Ni^{2+}/Cu^{2+}/Zn^{2+}$

& Many others

UNIQUE METHODS

WIZ Control Panel

-NH₃ OPA fluorimetric: enhanced sensitivity, single reagent, high stability, long term operations.



REAGENT CANISTER

DEPLOYMENT KIT

ADVANTAGES AND BENEFITS

- Multiparametric: up to 4 parameters in the same unit.
- Flexibility: more than 10 multiparametric configuration already developed active methods selectable by control software.
- Low reagents consumption: few uL of reagents per analysis.
- □ Low electrical consumption: battery operated
- Deployment Kit: including buoy, warning lamp, batteries, batteries charger and solar panels available as option
- Reagent canister: easy to plug in, new reagent set can be plug on site w/o WIZ removal
- Quick start up: delivered fully tested and calibrated as per end user specifications, just fill the reagent canister & power to start
- Autowash/Autocleaning: self wash and/or cleaning at the end of each measurement.
- Control Software: easy to use and to learn; short training, specifically designed for chemists.
- **QC** control: programmable QC check while deployed.
- □ Filter options: wide range of filter options, 10/25/100/400uM self cleaning or not or 0.25uM microfilter, self purging
- Control options: integrated firmware & internal data logging, data retrieve by PC software, external data logger for power On& OFF, analysis frequency, GPRS data transmission to control center. Remote control by combined use of Zetalog & Zetaced.
- Zetalog: Systea datalogger ready for WIZ & filtration unit control and data transmission to control center, allow in combination with Systea Zetaced control center the remote management of the
- Zetaced: Systea control center running on web server for WIZ and other sensors data management