

On-line Metal Monitor

Provides continual regular measurement and reporting of metals in solution, ideal for applications such as:

- industrial process control
- drinking water intake and distribution
- industrial effluent monitoring
- mining and metals processing
- environmental monitoring - lakes rivers reservoirs seawater
- soils remediation sites, groundwater and natural attenuation
- wastewater recycling influent monitoring

- Single instrument can be configured to measure combinations of up to six metals and up to three sample lines. Dual cell unit available if more metals required.
- More than twenty possible metals.
- Very low detection levels: typically low to sub part per billion, but depending upon metals being analysed and nature of sample.
- 24-hour monitoring at high frequency can identify and isolate events that daily average sampling may miss.
- 30 years of application development, validation studies and academic references.
- Programmable alarm and outputs for out-of-range samples or system faults.
- Remote access and data communication with many different secure communication options available including wireless.
- Pre-treatment options available to eliminate interferences and allow total and dissolved concentrations to be monitored
- Solid electrodes - no hazardous mercury drop electrodes.
- IP65 case - suitable for outdoor installations.
- User interface supports various languages, including traditional and simplified Chinese.



OVA7100 / dual cell OVA7100 SPECIFICATIONS

Working Electrode	Glassy carbon, used with a variety of films, or solid gold
Counter Electrode	Platinum
Reference Electrode	Ag/AgCl in KCl
Cell Material	Acrylic and PTFE
Cell Stirrer	Adjustable speed stirrer
Cell Volume	10ml nominal
Drain	Pumped to waste
CE Compliant	YES
Voltammetry Range	-2V to +2V
Sensitivity	1nA
Analysis methods available	Anodic stripping, Cathodic stripping
Waveforms available	Linear sweep, square wave and differential pulse
Calibration	Standard comparison or standard addition
Output display of results	Voltammetry curves, element concentration(s), historical data
Variation*	(% CV) 5 to 10% (typically - depends on metal(s) being analysed and nature of sample)
Operating Software	Windows OS
Power Supply	Dual voltage: 110/220 VAC 50/60Hz or DC supply
Operating Temp	5°C - 60°C
Humidity	5% - 95% non-condensing
IP Rating	IP 65
Communications	LAN Modbus TCP/IP, wireless, USB
Outputs	Rs232, LAN, 12V alarm, (4-20 mA optional)
Dimensions	1400mm (analytical 700mm, reagent 700mm) x 482mm x 400mm (H x W x D)
Mass	22 kg (analyser)
Application Software	LabView OVA7100

OVA7100 / dual cell OVA7100 OPTIONS

15" touch screen control panel in box, IP65 rated

4-20mA output

Pre-treatment cell for sample acidification for total metal content

UV pre-treatment for samples with high organic content

Multiple sample points

External pump and filter unit, can be used either for removing coarse solids or to bring samples to the instrument from up to 50m away. Ideally suited for river monitoring, but can be used in WWT plants and factories

Metals with standard application notes:

Cr	Mn	Fe	Co	Ni	Cu	Zn	Ga		As	Se
Mo				Pd	Ag	Cd	In	Sn	Sb	Te
					Au	Hg	Tl	Pb	Bi	

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