

The Systema Micromac Compact is a fully automated benchtop and portable water analyser, measuring WAD cyanide, free cyanide, total cyanide, and over 50 parameters with automatic calibration, automatic dilution, and industrial-grade IP55 construction.

SPECIFICATIONS

Cyanide parameters	WAD/Available, Free (air strip & distillation), Total, Amperometric, Cyanide Index
Total parameters	50+
Measuring points	Up to 4 (multiparametric)
Measuring time	5–60 minutes (application-dependent)
Auto-dilution	Up to 100×
Sample volume	50–80 mL per analysis
Reagent interval	3–5 weeks (frequency-dependent)
Outputs	4–20 mA (galvanically insulated); RS232; RS485/ModBus (optional)
Alarm contacts	3 × relay SPDT (Auxiliary, Error, Standby/Busy)
Protection rating	IP55 (higher on request)
Dimensions (H×W×D)	430 × 260 × 540 mm (analyser unit)
Weight	14 kg (analyser unit, without reagents)
Power	115/230 VAC 50/60 Hz; 40 W during analysis
Autosampler (optional)	8-position portable

FEATURES

- ▶ WAD/Available Cyanide, Free Cyanide (air stripping and distillation), Total Cyanide, Cyanide Index
- ▶ 50+ measurable parameters: metals, nutrients, organics, sulfide, chlorine, and more
- ▶ Fully automated: calibration, range-switching, off-scale dilution (up to 100×)
- ▶ Up to 4 sequential multiparametric measurement points (multiparametric version)
- ▶ Colorimetric dual-beam measurement; ISE, NDIR, UV options by parameter
- ▶ 8-inch colour graphic touchscreen (optional)
- ▶ 4–20 mA outputs (galvanically insulated, per method/stream)
- ▶ RS232; RS485 and ModBus RTU/TCP optional
- ▶ 3 × relay alarm contacts (Auxiliary, General Error, Standby/Busy)
- ▶ IP55 protection rating (higher classes available on request)
- ▶ Sample volume: 50–80 mL per analysis
- ▶ Reagent replacement: every 3–5 weeks
- ▶ Power: 115/230 VAC 50/60 Hz; 12/24 VDC option
- ▶ Optional 8-position portable autosampler
- ▶ Factory tested and ready to use; startup kit included

APPLICATIONS

- ▶ Mining process water and tailings monitoring, WAD cyanide, free cyanide, total cyanide
- ▶ ICMC and regulatory compliance reporting for cyanide in mining operations
- ▶ Industrial effluent monitoring and compliance
- ▶ Environmental emergency response (portable deployment)
- ▶ Wastewater treatment plant monitoring
- ▶ Surface water, groundwater, and seawater analysis
- ▶ Mobile laboratory installations