

## Technical Datasheet Hg- MAT1NE

### Technical Data of Hg-MAT1-NE

<b>Housing:</b>	Instrument built-in in a cabinet of stainless steel, protected against ambient according to IP 55
<b>Method:</b>	UV-photometer with measurement path and reference-beam for the stabilisation of the lamp. Cold vapour atomic fluorescence.
<b>Cuvette:</b>	Quartz, optical path length 230 mm
<b>Lightsources:</b>	High frequency excited Mercury low pressure lamp, stabilised light output, temperature stabilised.
<b>Ranges:</b>	0 ... 200 µg Hg per Litre. Lowest range 0 ... 5 µg/l maximum range (requires upstream dilution unit, available as option)
<b>Resolution:</b>	0,1 µg Hg per Litre Sample
<b>Rise time:</b>	0,5 to 2 minutes
<b>Sampling:</b>	Continuous sampling from bypass (maximum pressure on bypass is 500 mm H <sub>2</sub> O)
<b>Software:</b>	interactive operator prompting (according to EN 1483)
<b>Input:</b>	Moisture-proof membrane keyboard with 5 programmable keys
<b>Display:</b>	TFT-colour-display, graphic representation, back-lighting
<b>Output:</b>	Analogue output: 0 – 10 V (option 4...20 mA), RS 232 for digital data processing and software-update
<b>Pumps:</b>	2 peristaltic pumps with 3 pump-heads each (sample, KMnO <sub>4</sub> , Hydroxyl-Ammonium-Chloride, SnCl <sub>2</sub> , blank,
<b>Reagents</b>	Potassium-Permanganate, Hydroxyl-Ammonium-Chloride, Tin(II)Chloride, distilled water, mercury standard solution
<b>Supply of Reagents</b>	Continuous transport of the reagents by peristaltic pumps, fast response of signal due to continuous flow injection of reagents
<b>Reactor</b>	New designed reactor with reduced volume and purge module
<b>Fuses:</b>	Photometer: T 2 A micro-fuse, Cabinet 16 A automatic cutout
<b>Operating temperature:</b>	5 – 40°C, for the best accuracy constant temperature of the photometer and the reagents is recommended. Air-conditioner recommended (option)
<b>Power Supply:</b>	125 – 240 VAC, 50 – 60 Hz, 400 VA, to be specified for installation
<b>Sampling:</b>	Sampling system with fast loop bypass, pre-filtering and pressure-less sampling point (Option).
<b>Dimensions:</b>	62 x 76 x 50 cm (w x h x d)
<b>Weight:</b>	Approx. 80 kg (depending on installed options)
<b>Provided with delivery:</b>	Hg-MAT1 NE in air-conditioned stainless-steel-cabinet, including photometer, state-of-the-art operating software and bins for reagents.