

NIC EMP-3

Portable Mercury Analyzer



The NIC EMP-3 from Nippon Instruments Corporation (NIC) is a portable mercury analyser that accurately measures mercury vapour in ambient air. The EMP-3 uses the principle of cold vapour atomic absorption spectroscopy (CVAAS) and covers a wide concentration range up to 2000 µg/Nm³. Lightweight and compact, the EMP-3 is the ideal instrument for determining the precise content of gaseous elemental mercury (GEM).



Atomic absorption spectrometry
(CVAAS)

- ✓ Rental from one day
- ✓ Assistance technique include

TECHNICAL SPECIFICATIONS

MEASURING RANGE	0-2000 µg/Nm ³
DETECTION LIMIT	0.1 µg/Nm ³
PRECISION	3% (2µg/Nm ³ or higher)
FLOW	~ 1 L/min
RH	10–80% (No dew condensation)
ZERO CORRECTION	Automatic zero
RESOLUTION	0.1 µg/Nm ³ (~ 999.9)
DISPLAY	Touchscreen 4.3-inch color LCD
DATA LOGGING	Internal onboard 4GB memory (capacity up to 20,000 hours)
GPS	Automatic recording of GPS coordinates
DATA OUTPUT	USB flash drive
OTHER FUNCTIONS	Temperature compensation, pressure compensation
OPERATING T°	From 0°C to 45°C
OPTION	Hi-Lutor : 0-20000 µg/Nm ³
DIMENSIONS	(WxDxH) 207 x 115 x 140
WEIGHT	1.6kg (battery included)

KEYS POINTS

- Real-time measurements for air and gases
- High sensitivity, wide range and ultra-low detection threshold
- HD LCD color touch screen
- Continuous measurements
- Cold vapor atomic absorption spectrometry (CVAAS)
- Lightweight, compact and transportable

APPLICATIONS

- Detection of polluted soils
- Worker safety
- Landfill monitoring
- Mercury exclusion testing
- Source surveys
- Fluorescent lamps disposal & recycling exhaust
- Exhaust duct monitoring
- Medical

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