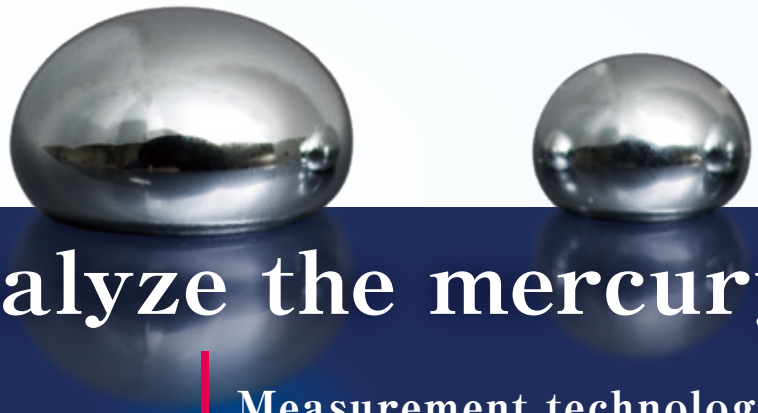


CORPORATE PROFILE

Know the mercury.

Mercury is, nowadays, used far less frequently than ever before but can still be present in familiar products such as fluorescent lights and clinical thermometers because of its advantageous properties. However, mercury is a highly-poisonous, dangerous metal that vaporizes at room temperature and then remains present in the atmosphere, oceans, and soil, or basically anywhere.
Mercury is also present in large fish that are eaten by humans, a popular example being tuna.
In response to the global movement towards better mercury management as revealed by the 'UNEP Mercury Programme' within the United Nations Environment Programme (UNEP), the 'Minamata Convention on Mercury' was adopted at Minamata City in Kumamoto in October 2013, thereby representative of the global aim to restrict use of mercury. The fact is, however, that mercury will very probably remain present throughout the world forever.
Which is exactly why we need to measure, control and monitor mercury. We will continue to need to control mercury in ensuring the mutual prosperity of all the human beings based on this planet, which we believe NIC' s technology can make a significant contribution to.



Analyze the mercury.

Measurement technology

The established principles for measuring mercury, both Cold-Vapor Atomic Absorption Spectroscopy and Atomic Fluorescence Spectroscopy, are fairly straight-forward, but actual measurements can be difficult since Mercury exists in matrices of all forms (solid, liquid and gas) and tends to adhere to almost anything that comes contact with.
We, NIC, as a manufacturer that specializes in development of Mercury analyzers, have extensively researched in mercury measurements, sample handling and preparation techniques, with accumulated knowledge and expertize in this field. Additionally, one of our efforts has been utilize to measuring techniques which can be applied to predict occurrence of earthquakes or disasters from volcanoes, which, we feel, is all possible too.
Our intention is to continue to offer a better solution to all the needs of our customers with all the peripheral knowledge and measuring technology we have , relating to Mercury.







Corporate Philosophy

We are a group that continues to advance in the pursuit of truth via both theory and experiments.

NIC is a unique enterprise that commenced business by specializing in a single element, i.e. mercury, and which consists of professionals who wish to “analyze mercury as precisely as possible.”

Mercury is ubiquitous in the human living environment and harmful to the human body, therefore requiring it be measured, monitored, and tracked, which requires mercury analyzers. However, the analyzers involved cannot be considered complete merely through understanding the analysis theory but also require original expertise and point of view.

We conduct research and development and maintain a good balance between theory and experiments using the experience we have amassed over the years.

We consider our mission to be to contribute to society by making use of the knowledge and expertise we have accumulated as an expert in mercury analysis, and by then making analyzers that utilize such knowledge and expertise available.



Akihiro Ikeshita
President



Mercury measuring equipment

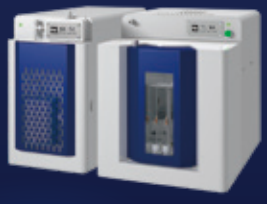
NIC constantly endeavors to develop and manufacture mercury analyzers with sensitivity and precision enabling measurements to be made precisely down to ppt level, thereby allowing customers to use them as reference instruments to satisfy the stringent limits and regulations.

NIC started our business and operation with just one single model Mercury analyzer. Since then, over the years, with the accumulated wide range of technical knowledge, expertize and knowhow coupled with rapid and numerous close collaborations with customers, various different models of Mercury analyzers are progressively developed to fulfill the requirements of each customers and applications. Most of these products are world-1st, incorporating our unique ingenuity.

Lately, NIC again excels and succeeded in the development of the world's first fully-automatic digestion reducing vaporization mercury analyzer, offering a better solution for ease and accurate measurement of Mercury in water and waste water.



Work environment
mercury measuring equipment
EMP-3



Mercury analyzer for
gaseous matrices
WA-5A/5F



Heat-vaporization
mercury measuring equipment
MA-3000



Fully-automatic
reducing-vaporization analyzer
RA-7000A



Fully-automatic analyzer
for mercury in petroleum oil
PE-1000

Sample - Product reference list

Sample		Product				
		MA	PE	RA	WA	EMP-SGM
Biological objects; Organisms	Blood, Urine, Hair, Internal organ, Plankton, etc.	◎		○		
Food	Rice, Fish (fish tissue), Butter, Margarine, Milk, Mother's milk, Vegetables, Gelatin, etc.	◎		○		
Household articles	Detergents, Paints, Glues, Waxes, Sanitary goods, Cloth, etc.	◎		○		
Medical products; Cosmetics	Gelatin capsules, Hand creams, Lipsticks, Hair Dyes, etc.	◎		○		
Reagents	Various kinds of reagents	◎		○		
Solid	1. Various kinds of coal	◎		○		
	2. Various kinds of soil, Fertilizer (Potassium, Sulfuric acid, Organic matters), Livestock feed	◎		○		
	3. Various kinds of ores	◎		○		
	4. Sewage sludge, Soil of factory-demolition sites	◎		○		
	5. Plastics (Ethylene, Polyethylene, etc.) Wood, Foliage, Paper	◎		△		
	6. Thimble (for particulate mercury collection)	◎		○		
Liquid	1. Sea water	○	○	◎	○	
	2. Service water, River water, Lake water, Rain water	○	○	◎	○	
	3. Industrial waste water	○	○	◎	○	
	4. Crude oil, Naphtha, Gas condensate, Heavy oil, Coal tar	○	◎			
Gas	1. General environment	○	○	△	◎	○
	2. Work environment, Fluorescent lamp crusher flue	○		△	◎	◎
	3. Semi-conductor manufacturing process	○			○	◎
	4. Animal carcass and organic solvent incinerator flue	○		△	◎	
	5. Waste incineration plant flue	○		○	○	○
	6. Coal-fired power station flue	△		△	◎	○
	7. Nonferrous metal refining ore roasting gas / Sulfuric acid manufacturing plant flue	△		△	◎	○
	8. Natural gas, LPG (General specification type, Explosion protection type)	○	○		◎	○
	9. Ground gas, LPG (Resource mapping)	△	△		◎	
Substance regulations	WEEE、RoHS、ELV	◎		○		
Standard sample	Standard sample	◎		◎		

MA PE RA WA EMP-SGM











WA-5A/5F

Mercury analyzer for gaseous matrices



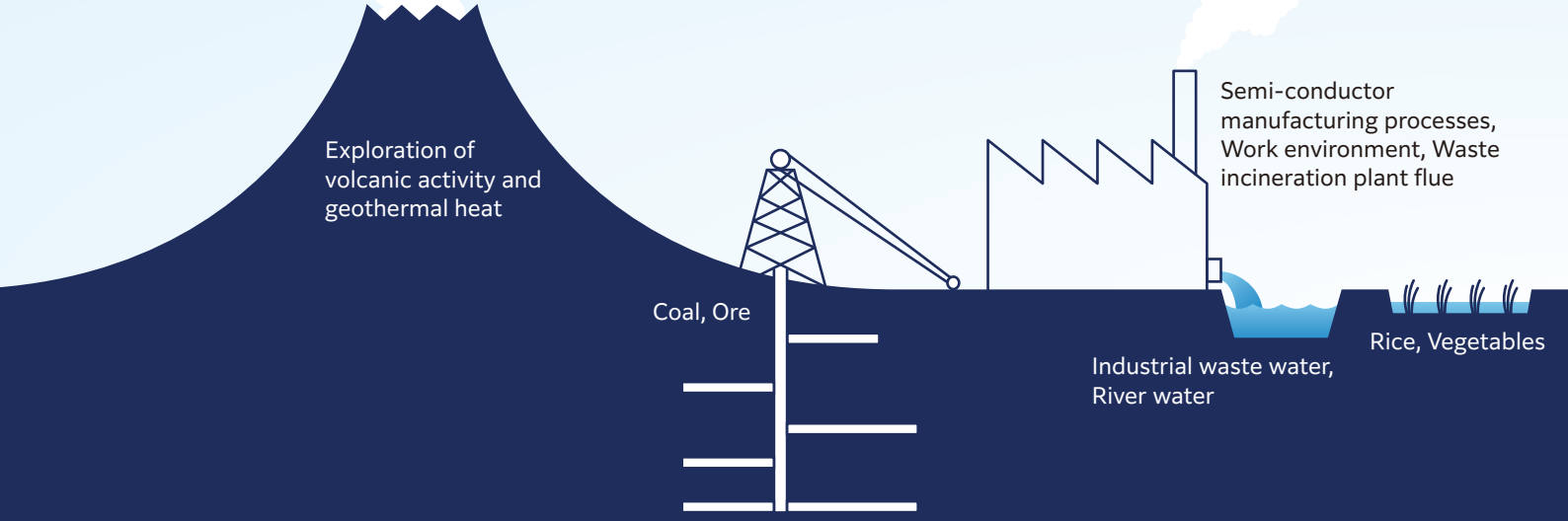
SGM-9

Portable monitor for mercury in stack gas



EMP-3/EMP-3 Gold+

Portable/handheld mercury measuring equipment



NIC's analyzers enable mercury measurement to be made in any environment

Our mercury analyzers have widened their range of application from in analysis laboratories through to production floors, and from indoors to outdoors. We can assist a customer's mercury measurement needs through the deep and wide range of experience we have with mercury analysis that we have accumulated over a period of more than quarter of a century.



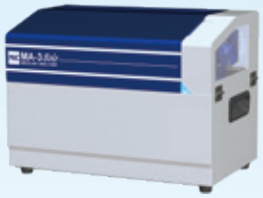
Geo-Thermo Research Activity



Exploration of volcanic activity



Contamination investigation above a gold mining site



MA-3 *Solo*

Heat-vaporization mercury measuring equipment



MA-3000

Heat-vaporization mercury measuring equipment



RA-7000A/RA-7000F

Reducing-vaporization analyzer



PE-1000

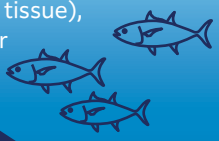
Fully-automatic petro pyrolysis mercury analyzer

Butter, Milk, Detergents, Paints, Lipsticks, Hairdressings





Fish (fish tissue), Sea water



- Water
- Air
- Soil





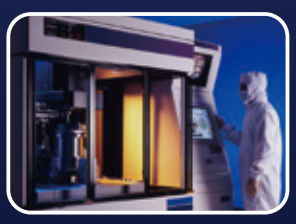
Environment

Food/ household articles

- Food
- Household articles
- Medical products, Cosmetics

Energy

- Petroleum oil, Natural gas
- Exploration of underground resources





Industry

- Nonferrous metal refining
- Electronics and electric industries

Crude oil, Naphtha, Gas condensate, Heavy oil, Coal tar

History of products

	Reducing-vaporization mercury measuring equipment	**RA-7000F**	2025	
			2024	RA-7000 Series received both the "Excellence Award in the General Category at the 36th Small and Medium Enterprise Excellent New Technology and New Product Awards" and the "Special Environmental Contribution Award."
	Reducing-vaporization mercury measuring equipment	**RA-7000A**	2023	
	Work environment mercury measuring equipment	**EMP-3**	2019	
	Heat-vaporization mercury measuring equipment	**MA-3 Solo**		
	Reducing-vaporization mercury measuring equipment	**RA-5A**	2018	
▶ **The world's first**	Field Portable Battery Operated Gold-Amalgam Gas Monitor	**EMP-Gold+**	2017	The Minamata Convention on Mercury entered into force (Aug 16, 2017)
			2016	MA-3000 / certified for UOP1009-15
	Reducing-vaporization mercury measuring equipment	**RA-5**		
	Portable Monitor for Mercury in Stack Gas	**SGM-8**		
	Reducing-vaporization mercury measuring equipment	**RA-4300FG+**		
	Mercury analyzer for gaseous matrices	**WA-5A/5F**		
	Reducing-vaporization mercury measuring equipment	**RA-4300**		
	Fully-automatic mercury measuring equipment	**RA-4500**		
	Work environment mercury measuring equipment	**EMP-2**		EMP-2 honored for INSTRUMENT BUSINESS OUTLOOK Gold award (U.S.A.)
	Heat-vaporization mercury measuring equipment	**MA-3000**	2010	PE1000 / SP-3D certified for UOP938-10
▶ **The world's first**	fully-automatic petro pyrolysis mercury analyzer	**PE-1000**		
▶ **The world's first**	fully-automatic reducing-vaporization mercury measuring equipment	**RA-3420**		
	Heat-vaporization mercury measuring equipment	**MA-2000**	2002	TM series awarded for The 32nd "Prize for New Machine Developed by Small and Medium Enterprises"
	Reducing-vaporization mercury measuring equipment	**RA-3 series**		
	Mercury analyzer for gaseous matrices	**WA series**	2000	SP-3D certified for UOP938-00
	Continuous measuring equipment for mercury in various forms in waste gas	**DM series**		
	Continuous-measuring equipment for mercury in liquid	**ARA series**		
	Mercury gas monitor	**EM series**		
	Heat-vaporization mercury analyzer	**SP-3D**		
			1995	SP-3D certified for UOP938-95
▶ **The world's first**	fluorescent lamp mercury measuring equipment	**TM series**		
	Heat-vaporization mercury measuring equipment	**MA series**		
	Field-portable high-performance mercury measuring equipment	**PM series**		
	Unattended continuous-measuring monitor for mercury in the air and gasses	**AM series**		
	Measuring equipment for oil in water	**Oil series**		
	Work environment mercury measuring equipment	**EMP series**		
	Reducing-vaporization mercury measuring equipment	**RA-2 series**		
	Heat-vaporization mercury analyzer	**SP series**		

Company overview

Company name	Nippon Instruments Corporation
Established in	1978
Company representative	Akihiro Ikeshita
Address	110, Nishikujo Kawarajo-cho, Minami-ku, Kyoto 601-8424, Japan
Businesses	Development, manufacture, and sale of mercury measuring equipment and measurement services
URL	https://www.hg-nic.com



Business sites

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TEL : +81-75- 748-6200
FAX : +81-75-748-6208

Oversea sales agencies / Service centers

Algeria, Australia, Belgium, Brazil, Canada, China, Egypt, France, Germany, Hungary, India, Indonesia, Kazakhstan, Korea, Malaysia, Mexico, Morocco, Myanmar, Netherlands, Oman, Philippines, Poland, Portugal, Qatar, Romania, Russia, Saudi Arabia, Singapore, South Africa, Spain, Sri Lanka, Switzerland, Thailand, U.A.E. , U.K. , U.S.A. , Vietnam

Parent company

Rigaku Corporation

Member organizations

Japan Analytical Instruments Manufacturer's Association

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Identify the right mercury analyzer for you
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