



Japan Electric Measuring Instruments
Manufacturers' Association

Profile of **JEMIMA** 2019

Japan Electric Measuring Instruments
Manufacturers' Association (JEMIMA)
Chairman **Takashi Nishijima**



For the past 70 plus years, dating back to its establishment in 1948, the Japan Electric Measuring Instruments Manufacturers' Association (JEMIMA) has been contributing to the development of society and industry as an organization that is concerned with the supply by its members of "mother tools," namely, electric measuring instruments that are indispensable for R&D, design, and manufacturing in a wide range of industry sectors.

Society is currently undergoing massive change due to rapid progress in digital technologies. For the realization of Japan's Society 5.0 vision for a super smart society and the country's Connected Industries initiative, all industries are being called upon to create new value and resolve a variety of societal challenges. With the Connected Industries initiative, the vast amounts of data obtained through networks connecting all the instruments at manufacturing facilities and other types of sites are positioned as a source of new value, and electric measuring instruments are essential assets that help to increase productivity by collecting and thereby facilitating the utilization of such data. Given the growing importance of these mother tools in measurement and control, JEMIMA plays an increasingly important role.

With the aim of accelerating change and leading the way forward to a new era, JEMIMA will be guided by the following policy:

JEMIMA's basic policy is to enhance the value of the association. In keeping with its philosophy, JEMIMA reaffirms that it will make every effort to enhance its value, and thereby meet the expectations of its member companies, their customers, and society.

Concretely, we will focus on the following three measures:

The first is to strengthen activities to search for technology development themes.

In the midst of the ongoing massive changes that are the result of digital and technological innovations, initiatives to create new businesses are required. Therefore, JEMIMA will help member companies identify new business opportunities by proactively planning and implementing technology exchange meetings and site tours with academics and individuals in other industries, in collaboration with the relevant divisions. With the aim of meeting the expectations of member companies and their customers, JEMIMA will strive to grow and play an ever more valuable role.

The second measure is to strengthen JEMIMA's ability to relay information to its members.

While progress is being made in the creation of value through IoT, AI, and other technologies that will lead to the achievement of "Society 5.0," JEMIMA will also enhance its capacity under the Connected Industries initiative to collect and share information. As such, JEMIMA will strengthen collaboration among its divisions and committees, with other associations, and with relevant government ministries and agencies.

The third measure is to add value through exhibitions.

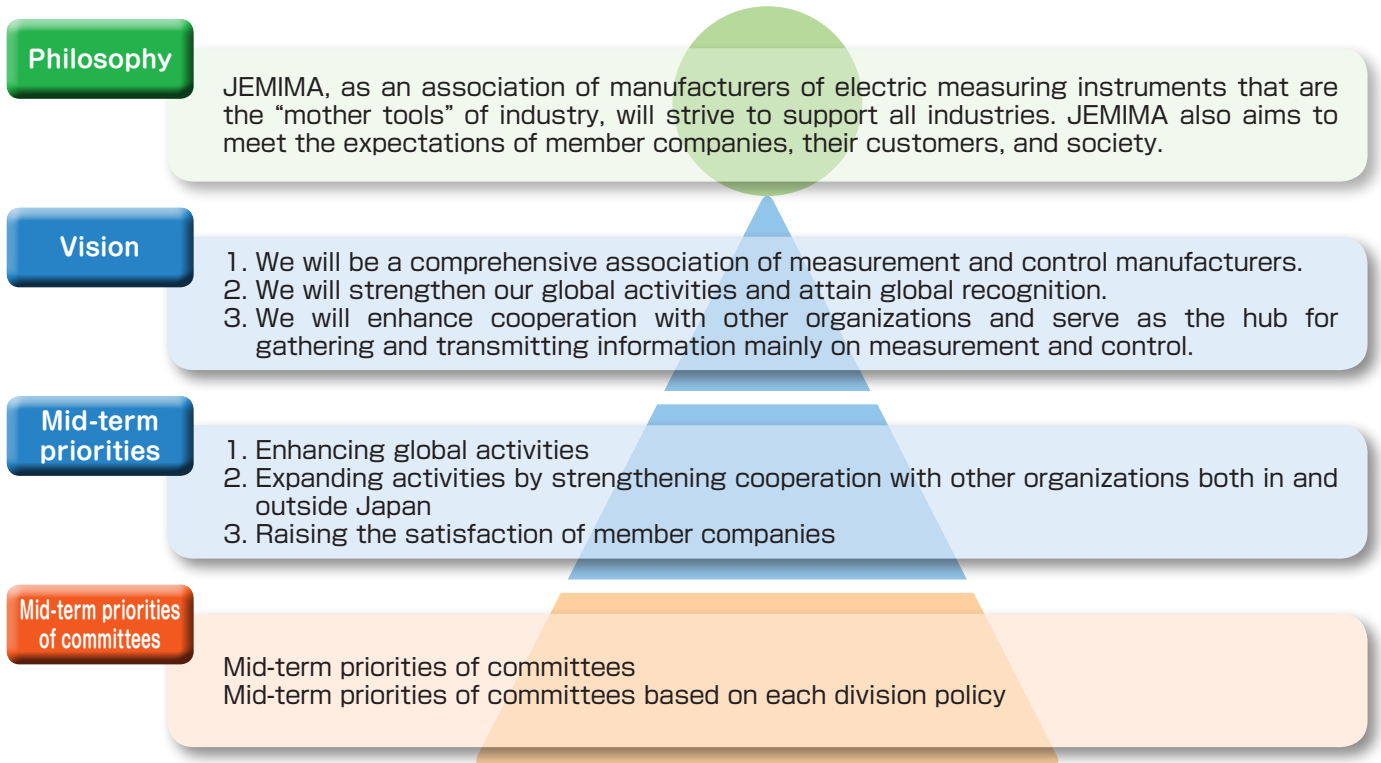
Thanks to the efforts of our stakeholders, many changes were made with the Measurement and Control Show and there was a great increase in the number of visitors to last year's event in Osaka. The event this year in Tokyo has been renamed the *Innovative Industry Fair for ExE Solutions (IIFES)*. We will further expand our exhibition activities and make it possible for member companies to create business opportunities through participation in the IIFES.

We will continue to carry out such measures to better serve our members, and would greatly appreciate the further guidance and support of our member companies, relevant ministries and agencies, and related organizations.



Philosophy, Vision, and Mid-term Priorities

As a manufacturers' association, JEMIMA has the following philosophy and has newly defined its vision and mid-term priorities. Through the seven activities and three bases outlined below, JEMIMA will pursue the objectives set out in its philosophy.



[Seven Activities]

Activity to support member companies for strengthening their global competitiveness

- Surveys of regulatory trends both in Japan and abroad
- Pursuit of international standardization activities
- Compilation of statistical reports

Activity to develop new technology and create business opportunities

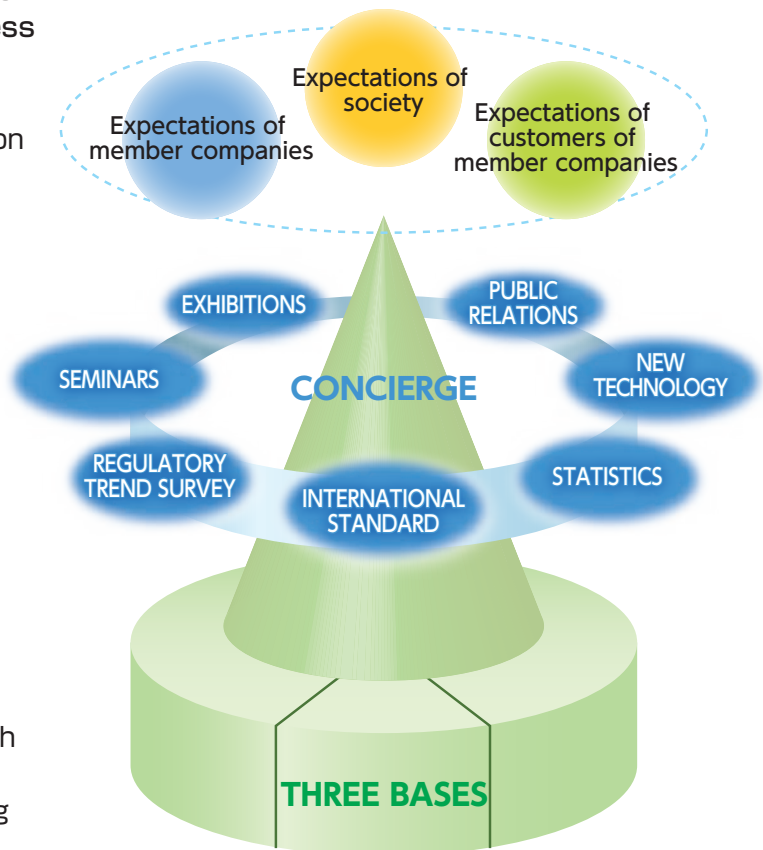
- Identification of new technology development themes

Activity to improve the presence of JEMIMA

- Management of public relations
- Organization of exhibitions
- Organization of seminars

[Three Bases]

- Strengthen the JEMIMA organization
- Activate JEMIMA committees by each division guidance
- Expand membership by strengthening member support



1 Surveys of regulatory trends both in Japan and abroad

In recent years, manufacturers of industrial products have had to quickly respond to changing regulations both in and outside Japan. JEMIMA regularly conducts timely, detailed surveys on export regulations, environmental regulations, EMC, product safety, and other issues for its members.

To strengthen its presence, JEMIMA works closely with organizations worldwide and sends committee members to the IEC and other international organizations. JEMIMA also continues to develop personnel with the requisite skillset for the global marketplace.

(1) Product safety and EMC

JEMIMA collects information on the enactment and amendment of laws, regulations, and standards both in and outside Japan regarding EMC and the electrical/optical safety of electric measuring instruments and related products, and distributes information on this to member and non-member companies through seminars and other events. JEMIMA has a database of laws and regulations worldwide that member companies are able to search and access.

Since 2009, JEMIMA has participated in the IEC/TC66 (safety of measuring, control and laboratory equipment) technical committee to strengthen its activities in this field.

(2) Export controls

JEMIMA holds briefings on export controls to help member companies comply with export-related laws and regulations.

To help Japanese exporters understand and comply with export control laws and regulations, JEMIMA has published documents whose Japanese titles are translated as "Security Export Control Textbook for Clear Understanding" and "Guidance on Security Export Control Applicability." A "Hand Carry Procedural Manual" has also been prepared to provide guidance for those going on overseas business trips. Through these activities, JEMIMA helps its member companies better understand export controls.

(3) Environmental conservation

JEMIMA regularly conducts global surveys of environmental regulations such as the RoHS and WEEE directives and the REACH regulations.

JEMIMA sends committee members to lobby European organizations, and based on the results that are achieved, formulates guidelines on how best to respond. Through cooperation with related organizations both in and outside Japan, JEMIMA is working hard to ensure that its members' opinions are reflected in the regulations and standards of various countries.

JEMIMA also holds seminars on environmental regulations for members, non-members, and students.

(4) Energy Innovation

JEMIMA learn the direction of "adaptation and solution" to major problems related to energy (such as global environmental issues), through exchange opinions with other organizations and experts. Based on the learned results, JEMIMA identify medium- and long-term business opportunities and business risks of member

companies. Based on these, JEMIMA will take action including recommendations as an industry association. JEMIMA also maintain the activities of the former Energy and Low Carbon Policy Committee, including maintaining of international standards JEMIMA supported.

(5) Research on functional safety

Through workshops and other activities, JEMIMA helps its members enhance their use of safety instrumented and control systems in the PA and FA fields. JEMIMA also promotes related standards on general requirements (JIS C 0508, 0511) and drafts related JIS standards.

(6) Surveys of various security issues

As in other branches of industry, the networks employed in manufacturing plants increasingly rely on open standards. JEMIMA works together with other organizations to study control system security issues and publishes its findings.

(7) Surveys of wireless technology

Wireless technology is widely used in PA and FA measurement and control applications. JEMIMA gathers information on international standards, radio transmission measurement, wireless technology, wireless coexistence, and other related fields.

(8) Support of overseas business expansion

JEMIMA exchanges memoranda on cooperation with prominent industrial associations and organizations in Asia (China, Taiwan, Thailand, etc.) and Europe (UK, etc.) and periodically exchanges information with them through reciprocal participation in exhibitions, seminars, workshops, and the like.

JEMIMA has prepared an overseas risk management manual for its members who frequently travel overseas.

2 Pursuit of international standardization activities

To raise awareness of Japanese technological advances and stimulate the development of new technologies, we propose international standards to the IEC, ISO, and other international standards organizations.

To assist in the proposal of international standards, JEMIMA holds forums on this topic and serves as a secretariat to support the proposal, deliberation, management, and implementation of international standards.

(1) Positive participation in developing international standards

Commissioned by the Ministry of Economy, Trade and Industry (METI), JEMIMA operates the following technical committees that deliberate international standards in Japan on behalf of the IEC and ISO and sends experts to international conferences to ensure that Japanese opinions are reflected in various standards.

IEC/TC65 (Industrial-process measurement, control, and automation)

IEC/TC45 (Nuclear instrumentation)

ISO/TC30 (Measurement of fluid flow in closed conduits)

(2) Promotion of the development of international standards by IEC/TC65

IEC/TC65 works on standard developments in the area of Industrial-process measurement, control and automation, which include devices (e.g. sensors and valves), communication technologies, system wide aspects (e.g. functional safety) and cross-cutting requirements such as smart manufacturing.

The activities of IEC/TC65 contribute to the businesses of member companies and in helping them providing more values to their customers.

TC65 Japan National Committee (JNC), hosted by JEMIMA, is performing efforts to reflect Japanese opinion in various occasions, such as submitting a new standardization proposal, continuing supportive actions in a plenary international conference, and detail works in individual working group, etc.

Two good examples, "The international standardization for factories, plants and smart grids" and "the international standardization for coexistence of the functional safety standard and a security standard", were proposed by JNC, and Japan takes role of convener for each working group. Furthermore, in the smart manufacturing area, IEC/TC65 plays important roles together with constructive contributions by JNC.



Smart Manufacturing Conference in Tokyo ISO/IEC/JWG21

(3) Promotion of the development of international standards by IEC/TC45

JEMIMA has been contributing to the development of international standards for nuclear measurement and control, and is continuing in its efforts to standardize nuclear facilities and the measurement of radiation to protect personnel.

(4) Ensuring consistency between JIS and IEC standards

JEMIMA surveys, studies, and develops JIS drafts to ensure consistency between the JIS and IEC standards on industrial process measurement and control instruments, environmental measuring instruments, radiation measuring instruments, and other categories.

3 Compilation of statistical reports

JEMIMA conducts quantitative surveys and analyses on user needs and market trends, compiles mid-term forecasts for major instruments, and announces the results at press conferences and through other media. JEMIMA also engages in other types of research focusing on global topics.

4 Identification of new technology development themes

JEMIMA surveys potential new themes for the development of fundamental technologies that may be of interest to its member companies. For its member companies, JEMIMA explores the potential of new businesses based on these technologies.

JEMIMA holds forums for exchanging views with academic societies, research organizations, and government agencies and supports the joint development of target technologies among member companies.

(1) Organization of a committee to promote innovation in IoT

The committee will consider what innovation and transformation IoT technology can bring in the expanding business domains of member companies making the most of the knowledge possessed by a wide range of experts and frontline managers, thus making proposals and taking measures to contribute to business expansion and revitalization in Japan and abroad.

(2) Identification of new themes in the electronic measuring instrument domain

The Electronic Measuring Instruments and Systems Committee is engaged in the study and organization of activities with a view to developing the electronic measuring instruments industry, including the exploration of new business opportunities.

5 Management of public relations

To boost its presence in the industry, JEMIMA issues press releases on its activities that are of interest to the broader society, including surveys of regulatory trends both in and outside Japan, seminars, and lectures.

The activities of JEMIMA's committees are promptly reported to its member companies. JEMIMA works hard to inform the public of the important role that electric measuring instruments play in addressing environmental problems and improving safety.

JEMIMA releases information through its website, a journal, and an e-mail magazine.

6 Organization of exhibition

Since 1955, Japan Electric Measuring Instruments Manufacturers Association (JEMIMA) has been hosting highly repetitive exhibitions to introduce state-of-the-art technologies for measurement and control in Tokyo (odd years) and Osaka (even years) alternately.

JEMIMA is also going to co-host a new exhibition "IIFES (Innovative Industry Fair for E x E Solutions)". This exhibition was a merged form of the following two exhibitions: formerly named Measurement and Control Show TOKYO which was conducted by JEMIMA, and System Control Fair with JEMA (The Japan Electrical Manufacturers' Association) and NECA (Nippon Electric Control Equipment Industries Association).

This IIFES will be held at Tokyo Big Sight in 2019.

◆ IIFES 2019 <https://iifes.jp> ◆

In 2020, "Measurement and Control Show OSAKA" will be held at Osaka International Convention Center.

◆ Measurement and Control Show OSAKA <https://jemima.osaka/> ◆

7 Organization of seminars

JEMIMA holds many kinds of technology seminars to educate measurement and control industry professionals. JEMIMA will continue to plan and hold seminars that meet the needs of its member

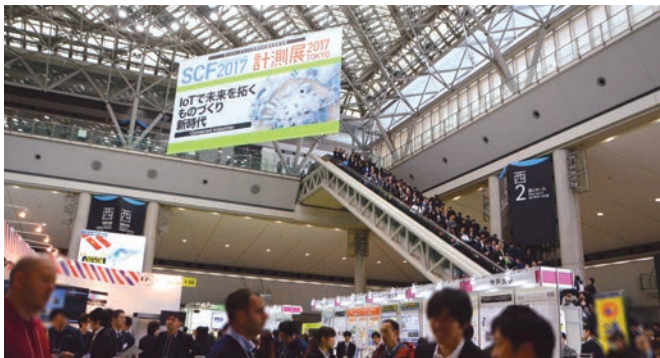
Major JEMIMA Activities



Measurement and Control Show 2018 OSAKA



Seminar on economic trends both in and outside Japan



Measurement and Control Show 2017 TOKYO



Seminar on environmental regulations

companies and help people in this industry obtain publicly certified qualifications. The main topics covered by JEMIMA seminars are as follows:

- Seminars on corporate public relations, websites, and publicity activities
- TPP and Japan-U.S. relations
- Practical case studies on intellectual property contracts
- Regulations in Japan, the U.S., and Europe under radio laws
- Seminars related to radiation measurement
- Briefings on security trade control
- New flow of procurement and purchasing reform
- Basic courses of lectures on product planning and marketing
- Instrumentation safety workshops
- IEC/TC65 international standardization seminars
- JCSS support measurement
- Human resource development training (assertion, OJT, compliance, sales basics, experienced and able employees, managers and supervisors, problemsolving, ways of working, and the like)

8 Other activities

(1) Concierge function

All committees have concierge function to return outcome of committees to member company. And, we provide concierge service to member

companies to meet their individual requests, thereby further enhancing member satisfaction.

(2) Procurement surveys

JEMIMA conducts surveys to facilitate the management of credit-related procurement risks such as the bankruptcy of a supplier.

(3) Promotion of calibration service

Aiming to grow the calibration service business of its member companies, JEMIMA encourages the use of the Japan Calibration Service System (JCSS) and strives to boost demand for it and solve related issues. These efforts are undertaken with the help of the National Institute of Advanced Industrial Science and Technology (AIST) and the National Institute of Technology and Evaluation (NITE). When necessary, JEMIMA compiles industry opinions and presents them to the government.

(4) Establishment of a Japanese Industrial

Standard for heatstroke meters One of our activities was to add a standard for instruments measuring wet bulb globe temperature (WBGT) indices (heatstroke meters) to the Japanese Industrial Standards (JIS). WBGT index meters conforming to this new JIS standard which are installed at workplaces, sports facilities, and the like are expected to reduce the development of heatstroke and the occurrence of accidents.

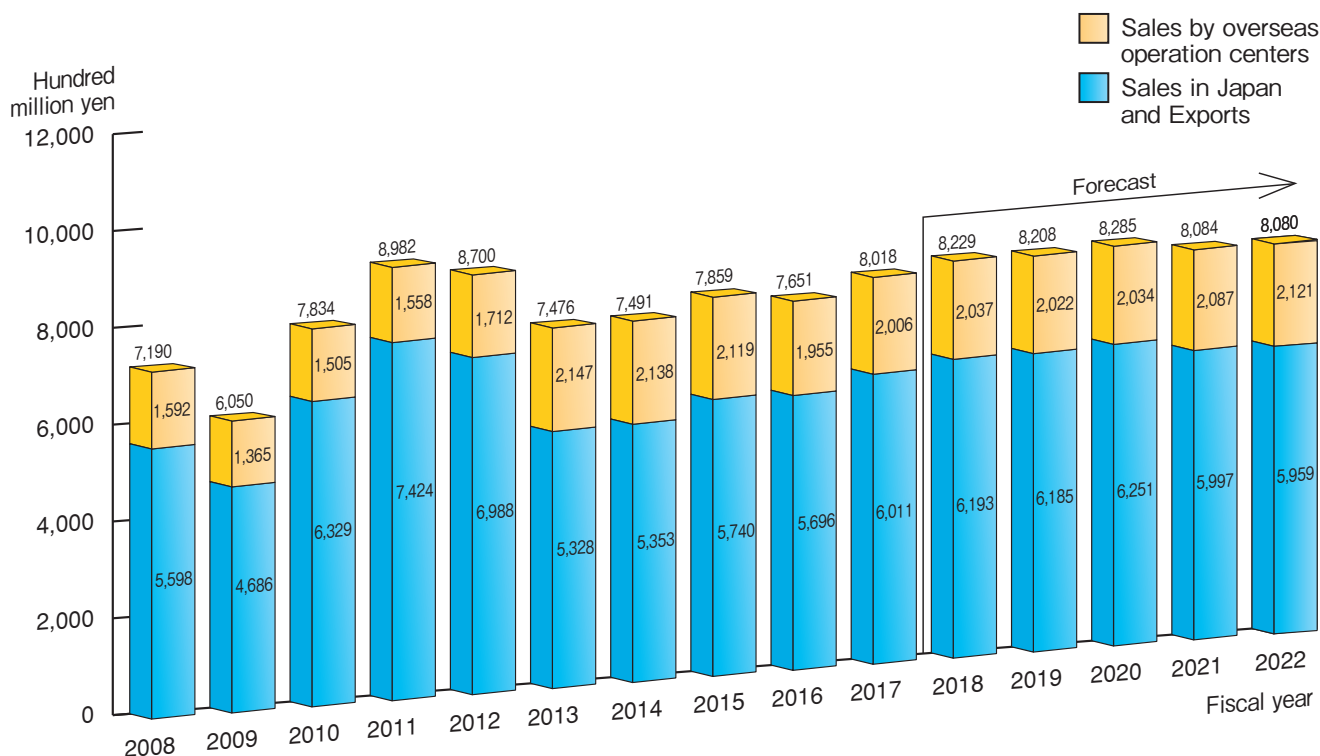
Trends in the Electric Measuring Instruments Industry

Electrical measuring instruments function as "mother tools" of industry and are used for various purposes. They are used in the electronics industry such as semiconductors, digital consumer electronics and telecommunications. They are also used for monitoring, production system control, quality inspection and R&D purposes in a wide range of fields such as steel, chemical, oil refining, electricity, water supply and sewerage.

Electrical measuring instruments are expected to continue to support a wide range of industrial activities, including new measurement needs in high-tech areas.

Every year, JEMIMA conducts statistical surveys on electric measuring instruments and publishes the results as a Mid-term Forecast report.

Actual Sales and Forecast of Sales of Electric Measuring Instruments (As of Dec. 2018)

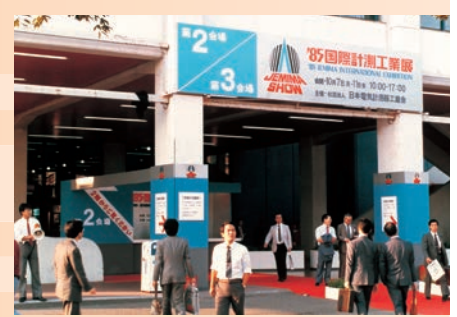


Categories and Products of Electric Measuring Instruments

Electric measuring instruments measure quantities and sizes of substances and phenomena, and are grouped into following 8 (eight) categories.

| Category | Description |
|--|---|
| Indicating Instruments | Instruments to indicate or record electrical quantities including electricity, voltage, electric power, power factors, and frequency, and other related apparatus |
| Electricity Meters | Instruments to measure the demand and supply of electric power and other related equipments |
| Electric Test and Measuring Equipment | Equipment to measure, observe, or record electrical and magnetic quantities by electronic means, and Equipment and Apparatus to generate electric and magnetic signals |
| Test and Measuring Instruments using Electronic Technology | Equipment and apparatus to detect, measure, indicate, or record physical, chemical, sensory, and other quantities other than electric and magnetic quantities: Excluded are equipments and apparatus for measurement and control in factory automation and process automation, environmental measurement, and radiation measurement. Also excluded are equipments and apparatus that measure mainly by mechanical means, even when their indicators or displays are electronic. |
| Measuring and Control Instruments for Factory Automation - FA- | Equipment and systems to identify and measure the status of objects in industrial processes such as machining & assembly industries, mainly handling solids and powder / granular materials, and other equipments and apparatus related to them, including general-purpose equipments converted into measurement and control equipments for factory automation application. |
| Process Measuring and Control Instruments | Equipment and systems to continuously measure and control variables of industrial processes that mainly handle fluids, gases, and vapor and related components & parts |
| Instruments for Environmental Monitoring | Measuring instruments to measure pollution of the natural environment and changes in natural phenomena, and other related equipments & apparatus |
| Radiation Measuring Instruments | Measuring instruments to measure quality and quantity of radiation [α , γ , β , α rays, neutrons and others], measuring instruments that utilize radiation, and other related equipment apparatus |

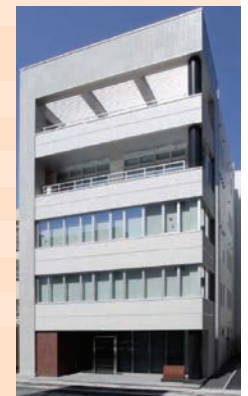
- 1948 JEMIMA established. Office set up at Ginza, Chiyoda-ku, Tokyo.
Kansai Branch established. Office set up at Shimadzu Corporation at Nakagyo-ku, Kyoto Prefecture.
- 1950 Head office relocated to 1-9-10, Toranomon, Minato-ku, Tokyo.
- 1951 Measurement Law enacted.
- 1955 Kansai Branch office relocated to 2-1-39, Dojima, Kita-ku, Osaka-city, Osaka Prefecture.
First Measurement Industry Exhibition held (today's Measurement and Control Show Tokyo) in Tokyo.
- 1956 Basis survey on automation conducted.
- 1958 Survey on export of electric measuring instruments started.
- 1959 JEMIMA standards (JEMIS) established. JEMIMA starts to gather statistical data (for indicating meters).
Measurement Industry Exhibition held in Yawata, Kyushu.
- 1960 JEMIMA was granted as a legal corporate person, with the status of a public-service corporation.
- 1961 Product List of JEMIMA Members created. Survey on electric measuring instrument markets made.
- 1962 Keisoku Kaikan Building completed.
- 1964 Recent Measuring and Control Equipment Handbook (Industrial Measuring Instrument Guidebook) published.
- 1965 Survey on the basic situation of the electric measuring instrument industry made.
- 1967 First electric instrument and measuring instrument exhibition (JEMIMA T & M) held in Nagoya.
- 1974 First issue of the Outlook on the Electric Measuring Instrument Industry (currently Mid-term Forecast of Electric Measuring Instruments) published.
- 1978 30th anniversary commemorated. (Booklet entitled "Thirty Years of the Industry of Electric Measuring Instruments" issued.)
- 1979 First issue of the Environmental Measuring Instrument Guidebook published.
First electric measuring instrument and new technology presentation / exhibition held in Sapporo.
- 1981 Measurement Industry Exhibition renamed as the International Measurement Industry Exhibition.
Seminars on electronic measuring instruments held in the United States.
- 1983 Participated as a group at the 1983 Shen Yang Japan Exhibition for Automation Industrial Technology.
- 1984 Dispatched a mission to China for technical exchange regarding environmental contamination measuring instruments.
- 1985 Summary report of the Electric Measuring Instrument Industry published.
- 1987 Basic policy for observing export related laws developed.
- 1988 Japan Electronics Measurement Exhibition internationalized. 40th anniversary commemorated.
- 1989 French delegation received. Issuance of JEMIMA Exhibition Update launched.
- 1990 First JEMIMA Kansai Measuring Plaza held.
- 1991 Kansai Branch office relocated to the Denshi Kaikan, 6-8-7, Nishi Tenma, Kita-ku, Osaka-city, Osaka Prefecture.
- 1996 Seminar on measuring held at the Hanoi Institute of Technology (Vietnam).
- 1997 International Measurement Industry Exhibition renamed as INTERMAC held at the Tokyo International Exhibition Hall (Tokyo Big Sight).
Meeting for international exchange with the Korea measuring instrument research consortium held in Seoul.
Opened the JEMIMA website.
- 1998 50th anniversary commemorated in May.
- 2000 Internet Measurement Exhibition e-EXPO held.
Exchanged a MOU with Taiwan Electrical and Electronic Manufacturers' Association (TEEMA).
- 2001 Started the delivery of the e-mail magazine "JEMIMA Weekly INFORM".
- 2003 Opened the MandC (Measurement and Control) portal site.
INTERMAC renamed as the Measurement and Control Show. The Measurement and Control Show 2003 Tokyo held at Tokyo Big Sight.
- 2004 Measurement and Control Show 2004 Osaka held at the Osaka International Convention Center (Grand Cube Osaka).
- 2005 The international standard proposal ISO 13584-501 (standard for the procedure for registering a PLIB dictionary for measuring equipment) approved as an international standard.
- 2006 First JEMIMA Committee Activities Report Meeting held.
- 2007 JEMIMA head office relocated from Toranomon, Minato-ku, Tokyo to Shibadaimon, Minato-ku, Tokyo.
- 2008 Keisoku Kaikan Building constructed and inaugurated. JEMIMA head office relocated to Nihonbashi-Kakigaracho, Chuo-ku, Tokyo.
60th anniversary commemorated. JEMIMA mid-term forecast published. JEMIMA symbol and logo renewed.
IEC/TC65 plenary meeting held in Tokyo.
- 2009 IEC/TC45 (Nuclear measurement) plenary meeting held in Yokohama.
- 2010 JEMIMA Session was held at the SICE Annual Conference Taipei Workshop.
- 2011 Exchanged a MOU with China Instrument Manufacturers Association (CIMA).
- 2012 JEMIMA was granted the status of "General Incorporated Association".
- 2013 Exchanged a MOU with The GAMBICA Association Limited.
The Measurement and Control Show 2013 Tokyo and the System Control Fair 2013 held at the same date in the same place, Tokyo Big Sight.



International Measurement Industry Exhibition 1985



IEC/TC65 Tokyo Plenary Meeting, 2008



Keisoku Kaikan Building

- 2014 Promoted internationalization by inviting members of Thailand Committee and IEC/TC65 adviser group to Measurement and Control Show 2014 OSAKA.
- 2015 Expansion of regular members' rights.
- 2016 Exchange a MOU with Technology Promotion Association (Thailand-Japan) <TPA>.
- 2017 Establishment of four new divisions under the Board of Directors.
Kansai Branch office relocated to 1-5-33, Nishimiyahara, Yodogawa-ku, Osaka-city, Osaka Prefecture.
The Measurement and Control Show 2017 Tokyo and the System Control Fair 2017 held Tokyo Big Sight.
- 2018 70th anniversary commemorated (JEMIMA redesigned WEB site and introduced the Web remote conference system).
Expanded the participation venue for Measurement and Control Show 2018 OSAKA held in Osaka International Convention Center (Grand Cube Osaka)
15th anniversary of the Measurement and Control Show OSAKA was commemorated.
- 2019 Two major industrial exhibitions (Measurement and Control Show Tokyo & System Control Fair), were joined together and born as a new exhibition called IIFES (Innovative Industry Fair for E x E Solutions) which is planned to be held at Tokyo Big Site in November 2019.



JEMIMA's 70th anniversary



The following publications are published and sold by JEMIMA.

Study Reports

- Mid-term Forecast of Electric Measuring Instruments 2018 - 2022 (Issued December 2018)
- Guidance on Security Export Control Applicability, 2nd Edition (Issued April 2018)
- Hand Carry Procedural Manual, 7th Edition (Issued April 2016)
- Guidebook for Environmental Measuring Instruments, 7th Edition (Issued December 2015)
- Security Export Control Textbook for Clear Understanding - From ABC to Practical Operation, 2nd Edition (Issued April 2014)
- Guidebook for JIS C 1111:2006 "Electrical measuring transducers for converting a.c. electrical quantities to analogue or digital signals" (Issued March 2012)
- Understanding Safety Instrumentation: Explanation of JIS C 0511 "Functional Safety - Safety Instrumented Systems for the process industry sector" (Issued July 2009)



JEMIMA Standards (JEMIS)

- JEMIS 017-2007 Environmental Conditions of Electric Standard Chambers
- JEMIS 021-2012 Glossary of Environment Measurement Technology
- JEMIS 032-2019 Flow Rate Measurement Method Using an Ultrasonic Flow meter
- JEMIS 034-2001 Temperature Measurement Method Using a Thermocouple and Resistance Temperature Sensor
- JEMIS 038-2006 JEMIMA Field Bus
- JEMIS 039-2002 Tolerable Values of Electromagnetic Wave Interference Characteristics of Industrial Process Measurement and Control Equipment and Measurement of Them
- JEMIS 040-3-2002 Voltage Variation and Flicker Tolerable Value of Low-voltage Power Supply Systems Used in Industrial Process Measurement and Control Equipment Less Than 16 A in Rated Current
- JEMIS 041-2002 Face-to-Face Dimensions of a Magnetic Waterworks Meter
- JEMIS 042-2003 Long-term Stability of a Magnetic Flow meter
- JEMIS 043-2015 Performance Testing Method of a Contact Surface Thermometer
- JEMIS 044-2015 Assembly of a Standard Thermocouple



Regular Members (85 Companies)

(As of May 17, 2019) (Alphabetical Order)

| | | |
|------------------------------------|---|--|
| A&D CO., LTD. | HAMAMATSU PHOTONICS K.K. | OSAKI ELECTRIC CO., LTD. |
| ABB BAILEY JAPAN LIMITED | HIOKI E.E. CORP. | OVAL CORP. |
| ACRORAD CO., LTD. | HITACHI HIGH-TECH SOLUTIONS CORPORATION | OYO ELECTRONICS, LTD. |
| ANRITSU CORP. | HITACHI, LTD. | RIKEN KEIKI CO., LTD. |
| ANRITSU METER CO., LTD. | HORIBA ADVANCED TECHNO, CO., LTD. | RION CO., LTD. |
| ASAHI PYRO INDUSTRIAL CO., LTD. | HORIBA STEC, CO., LTD. | RKC INSTRUMENT INC. |
| AZBIL CORPORATION | HORIBA, LTD. | SHIBUKAWA KUWANO ELECTRICAL INSTRUMENTS CO., LTD. |
| CHINO CORP. | IMV CORPORATION | SHIMADA ELECTRIC CO., LTD. |
| CHIYODA TECHNOL CORPORATION | ISHIDA CO., LTD | SHIMADEN CO., LTD. |
| CHUO ELECTRONICS CO., LTD. | IWATSU ELECTRIC CO., LTD. | SHIMADZU SYSTEM SOLUTIONS CO., LTD |
| COOPER INDUSTRIES JAPAN K.K. | KIKUSUI ELECTRONICS CORP. | SHINKAWA ELECTRIC CO., LTD. |
| DAIDO INDUSTRIES, INC. | KYORITSU ELECTRICAL INSTRUMENTS WORKS, LTD. | SONIC CORPORATION. |
| DAIICHI ELECTRONICS CO., LTD. | KYOSAI TECHNOS CO., LTD. | SUKEGAWA ELECTRIC CO., LTD. |
| DKK-TOA CORPORATION | KYOTO ELECTRONICS MANUFACTURING CO., LTD. | TAKASAGO, LTD. |
| DTS INSIGHT CORPORATION | KYOWA ELECTRONIC INSTRUMENTS CO., LTD. | TFF CORPORATION |
| EBARAJITSUGYO CO., LTD. | MEIDENSHA CORP. | TOHO ELECTRIC CO., LTD. |
| EMERSON JAPAN, LTD. | MITSUBISHI ELECTRIC CORP. | TOKYO KEIKI INC. |
| EMIC CORP. | MIWA ELECTRIC CO., LTD. | TOKYO KEISO CO., LTD. |
| ENDRESS+HAUSER YAMANASHI CO., LTD. | MTT CO., LTD. | TOSHIBA INFRASTRUCTURE SYSTEMS & SOLUTIONS CORPORATION |
| ENEGATE, CO., LTD. | NAGASE LANDAUER, LTD. | TOSHIBA TOKO METER SYSTEMS CO., LTD |
| ENERGY SUPPORT CORP. | NEW COSMOS ELECTRIC CO., LTD. | TOYO KEIKI CO., LTD. |
| ETO DENKI CO., LTD. | NF TECHNO COMMERCE CO., LTD. | TSUDA ELECTRIC METERS CO., LTD. |
| FM APPROVALS LLC | NINOMIYA ELECTRIC WIRE CO., LTD. | TSURUGA ELECTRIC CORP. |
| FUJI ELECTRIC CO., LTD. | NOHKEN INC. | YAMARI INDUSTRIES, LTD. |
| FUJI ELECTRIC METER CO., LTD. | OHKURA ELECTRIC CO., LTD. | YASUKAWA ELECTRIC CORPORATION |
| FUKUDEN INC. | OI ELECTRIC CO., LTD. | YOKOGAWA ELECTRIC CORP. |
| GASTEC CORPORATION | OKAZAKI MFG. CO., LTD | YOKOGAWA TEST & MEASUREMENT CORPORATION |
| GRAPHTEC CORPORATION | OMRON CORP. | |
| HAKARU PLUS CORPORATION | ONO SOKKI CO., LTD. | |

Supporting Members (27 Companies and 12 Organizations)

| | | |
|-----------------------------------|--|--|
| ABB K.K. | NIHON DENKEI CO., LTD. | JAPAN SOCIETY OF NEXT GENERATION SENSOR TECHNOLOGY |
| ANALOG DEVICES K.K. | ORIX RENTEC CORP. | JAPANESE PROFIBUS ORGANIZATION |
| ASAHI KOKUSAI TECHNEION CO., LTD. | PEPPERL+FUCHS K.K. | KANAGAWA INSTITUTE OF INDUSTRIAL SCIENCE AND TECHNOLOGY |
| COSMOS CORPORATION | PHC CORPORATION | KEC ELECTRONIC INDUSTRY DEVELOPMENT CENTER |
| EIWA CORPORATION | ROHDE & SCHWARZ JAPAN K.K. | RELIABILITY CENTER FOR ELECTRONIC COMPONENTS OF JAPAN |
| ENDRESS+HAUSER JAPAN CO., LTD. | SMFL RENTAL COMPANY, LIMITED | SEMICONDUCTOR EQUIPMENT ASSOCIATION OF JAPAN |
| FUJI SAFETY SUPPORT CORPORATION | STACK ELECTRONICS CO., LTD | THE OSAKA UNIVERSITY RESEARCH ASSOCIATION OF INDUSTRY AND SCIENCE |
| SPECTRIS CO., LTD. | TECHNOHILL CO., LTD. | THE SOCIETY OF INSTRUMENT AND CONTROL ENGINEERS |
| KEYSIGHT TECHNOLOGIES JAPAN K.K. | TOYO CORPORATION | TRON FORUM |
| KITAHAMA, LTD. | UL JAPAN, INC. | |
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| KYOSHIN COMMUNICATIONS CO., LTD. | | |
| KYOTO EIC LTD | FIELDCOMM GROUP, INC. | |
| METSO JAPAN CO., LTD. | JAPAN ELECTRONICS AND INFORMATION TECHNOLOGY INDUSTRIES ASSOCIATION | |
| MICHELL JAPAN K.K. | JAPAN ELECTRIC MEASURING INSTRUMENTS DISTRIBUTORS ASSOCIATION | |
| NATIONAL INSTRUMENTS JAPAN CORP. | | |

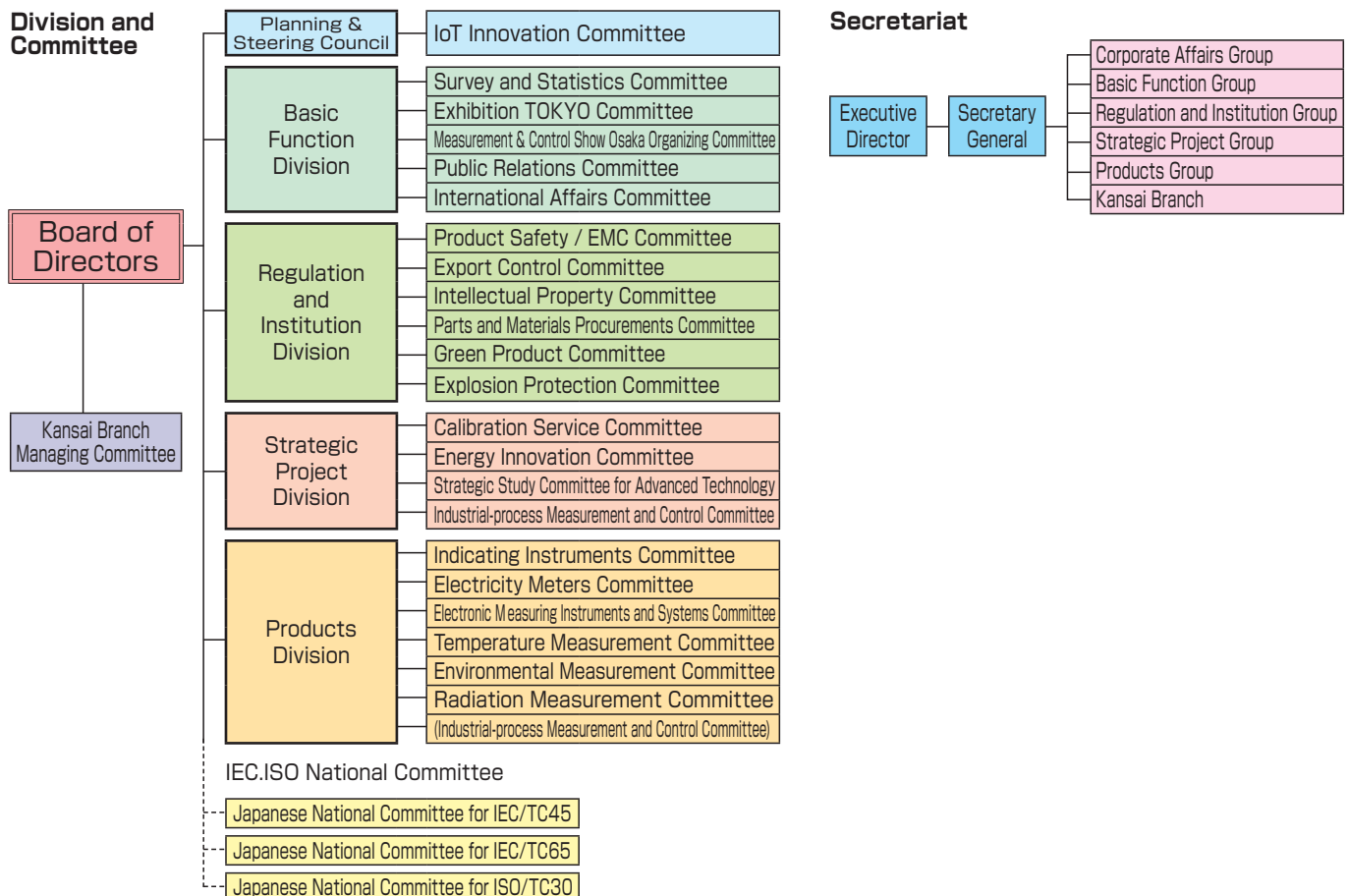


Board Members

(As of May 17, 2019)

| | | | |
|--|---------------------|--|--|
| CHAIRMAN | TAKASHI NISHIJIMA | Chairman and Representative Director of the Board | YOKOGAWA ELECTRIC CORPORATION |
| VICE CHAIRMAN | HIROZUMI SONE | President and Group CEO | AZBIL CORPORATION |
| VICE CHAIRMAN (Director, Kansai Branch) | ATSUSHI HORIBA | Chairman and Group CEO | HORIBA, LTD |
| EXECUTIVE DIRECTOR | JUNJI YOSHIHARA | | ANRITSU CORPORATION |
| DIRECTOR | AKIO TAKAGI | Senior Executive Officer | OVAL CORPORATION |
| | JUN TANIMOTO | President | OSAKI ELECTRIC CO., LTD. |
| | YOSHIHIDE WATANABE | Chairman and CEO | OKAZAKI MFG. CO., LTD |
| | KAZUhide OKAZAKI | President | ONO SOKKI CO., LTD. |
| | YUJI OKOSHI | Director | KIKUSUI ELECTRONICS CORPORATION |
| | KAZUO KOBAYASHI | President and CEO | SHIMADZU SYSTEM SOLUTIONS CO., LTD |
| | OSAMU NISHIGUCHI | President | CHINO CORPORATION |
| | MIKIO TOYODA | President | DKK-TOA CORPORATION |
| | TOSHIO TAKAHASHI | President and Representative Director | TOSHIBA INFRASTRUCTURE SYSTEMS & SOLUTIONS CORPORATION |
| | FUMIHIKO OKANIWA | Chief Executive | HAKARU PLUS CORPORATION |
| | YASUO MIYAKE | President | HIOKI E.E. CORPORATION |
| | KAZUTOSHI HOSOYA | President and CEO | HITACHI HIGH-TECH SOLUTIONS CORPORATION |
| | SHIGERU SUGIYAMA | Executive Managing Director | FUJI ELECTRIC CO., LTD. |
| | HIROSHI TETSUTANI | Executive Officer Corporate General Manager, Power Electronics Systems Industry Business Group | mitsubishi electric corporation |
| | HISASHI HUNAKOSHI | Senior General Manager | YAMARI INDUSTRIES, LTD. |
| | MASANORI TAKAHASHI | Corporate Executive Officer General Manager | RIKEN KEIKI CO., LTD. |
| | HISAYOSHI KOBAYASHI | President | JAPAN ELECTRONICS PACKAGING AND CIRCUITS ASSOCIATION |
| AUDITOR | SHOHEI OHTAKI | Executive Director | NEW COSMOS ELECTRIC CO., LTD. |
| | YOSHINORI TAKAHASHI | President and Representative Director | HAMAMATSU PHOTONICS K.K. |
| | AKIRA UTSUYAMA | Audit and Supervisory Board Member | |

Organization Chart



Welcome, New Members

Come and Join JEMIMA

The Japan Electric Measuring Instruments Manufacturers' Association (JEMIMA) provides a wide range of services in the field of measurement and control. Use our services to help your company grow.

Membership privileges

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Through JEMIMA, member companies can submit their proposals concerning regulations, international standards, etc.

- Working with METI and other government agencies to communicate the views of its members on regulations and systems both in and outside Japan
- Working with other organizations to communicate its members' views on environmental regulations to the EU and other entities
- Drafting IEC, JIS, and other standards

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Through JEMIMA, member companies can gain access to government agencies, companies in other fields, academic societies, etc.

- Holding exhibitions, committee sessions, and other meetings that allow its member companies to network with others
- Keeping a good rapport with government agencies like METI, international standards-making bodies like the IEC, organizations related to infrastructure maintenance and energy conservation, the Society of Instrument and Control Engineers (SICE), and other organizations

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Through JEMIMA, member companies can quickly obtain information from and exchange views with their peers in the industry.

- Publishing books with the latest information on export controls
- Providing member companies statistical data and other information via email newsletters and websites
- Offering a concierge service to meet the individual requests of members.

Member ship

- **Regular members:** Corporations engaged in the manufacture of electric measuring instruments Corporations engaged in business related to electric measuring instruments
- **Supporting members:** Individuals or groups excluding regular members

Contact

JEMIMA Corporate Affairs Group
Tel: +81-3-3662-8185

Or click the "Contact Us" button on the JEMIMA website.



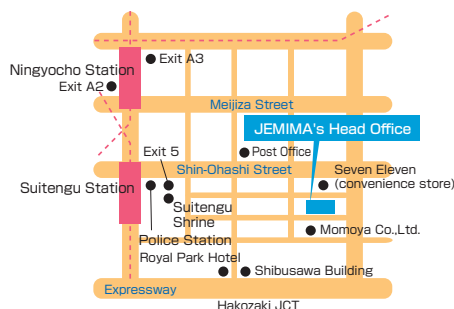
Locations

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2-15-12 Nihonbashi-kakigara-cho, Chuo-ku, Tokyo zip-103-0014 Japan
Tel +81-3-3662-8181~5 Fax +81-3-3662-8180

Access by train

- 3 minutes' walk from No.5 exit of Suitengu station, Tokyo Metro, Hanzomon-line
- 7 minutes' walk from A2 exit of Ningyo-cho station, Tokyo Metro, Hibiya-line
- 10 minutes' walk from A3 exit of Ningyo-cho station, Toei Subway, Asakusa-line

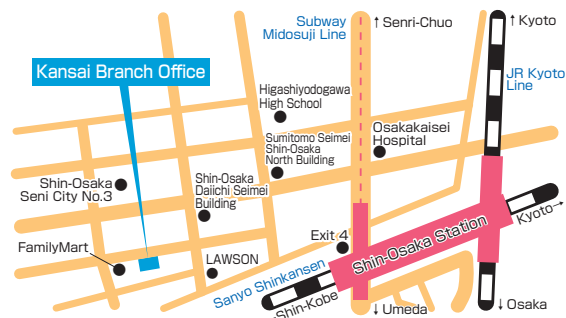


Kansai Branch Office

1F Shin-Osaka Iida Building, 1-5-33, Nishimiyahara, Yodogawa-ku, Osaka zip-532-0004 Japan
Tel +81-6-6151-5710 Fax +81-6-6151-5709

Access by train

- (From the Exit 4 at Shin-Osaka station of Subway Midosuji Line)
- 9 minutes' walk from Center Gate, Shinkansen Line
- 11 minutes' walk from East Gate, Conventional Line
- 6 minutes' walk from North Gate, Subway Midosuji Line



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