



Japan Electric Measuring Instruments  
Manufacturers' Association

Profiles of  
**JEMIMA**  
2009/2010

## Chairman, Japan Electric Measuring Instruments Manufacturers' Association **Seiji Onoki**



Since its establishment in 1948 and during its history spanning more than six decades, the Japan Electric Measuring Instruments Manufacturers' Association (JEMIMA) has contributed extensively to the development of society and industry as the organization dealing with electric measuring instruments, which are called "mother tools of the industry" and are indispensable to innovation in the fields of research and development, design, and manufacturing.

Today, we are witnessing very significant changes taking place in the corporate environment. These changes include global environmental and energy problems, aging and decreasing populations in some areas and population explosion in others, as well as more borderless and segmented economic activities and information flow. "Measurement and control" are indispensable to cope with any one of these changes. These changes are therefore quite relevant to the activities of JEMIMA and can be regarded as providing a good opportunity for JEMIMA to innovate itself.

It is clear that, to meet the challenge of global environmental problems, safety, security, technology transfer and training, and others issues we face, the individual effort of JEMIMA members is indispensable. However, greater results can be obtained if we act concertedly in the framework of JEMIMA with a common understanding across the industry. The development and standardization of new technologies are also very important to respond to diversifying social needs and the globalized economy. Focusing on the "Eight activities" and "Three bases" indicated in the "JEMIMA mid-term vision," JEMIMA will exert more effort in promoting exchange and cooperation with related industry associations and other organizations in Japan and abroad with a view to making the wisdom and capabilities of each JEMIMA member a more potent source of power.

In response to the reform of non-profit and charitable organization laws, JEMIMA will commence preparations to deal with this issue based on thorough deliberation on what JEMIMA should be. Expansion in scale and quantity will be very important for enhancing the quality of JEMIMA. JEMIMA will develop and implement strategic plans aimed at increasing its membership.

Based on the JEMIMA mid-term vision, JEMIMA will strive to be an attractive industry association that can meet the "expectations of member companies," "expectations of member companies' customers," and "expectations of society." Continued guidance and encouragement of JEMIMA members, government agencies, and related organizations will be highly appreciated.

# JEMIMA Mid-term Vision

JEMIMA will strive to be an attractive industry association meeting the "expectations of member companies," "expectations of member companies' customers," and "expectations of society." To accomplish this objective, the following "eight activities" and "three bases" will be strengthened further.

## [Eight Activities]

Activity to support member companies for strengthening their global competitiveness

- Survey of Trends in Regulations in Japan and abroad
- Activity to Promote International Standardization
- Statistics Activity

Activity to develop new technology and create business opportunities

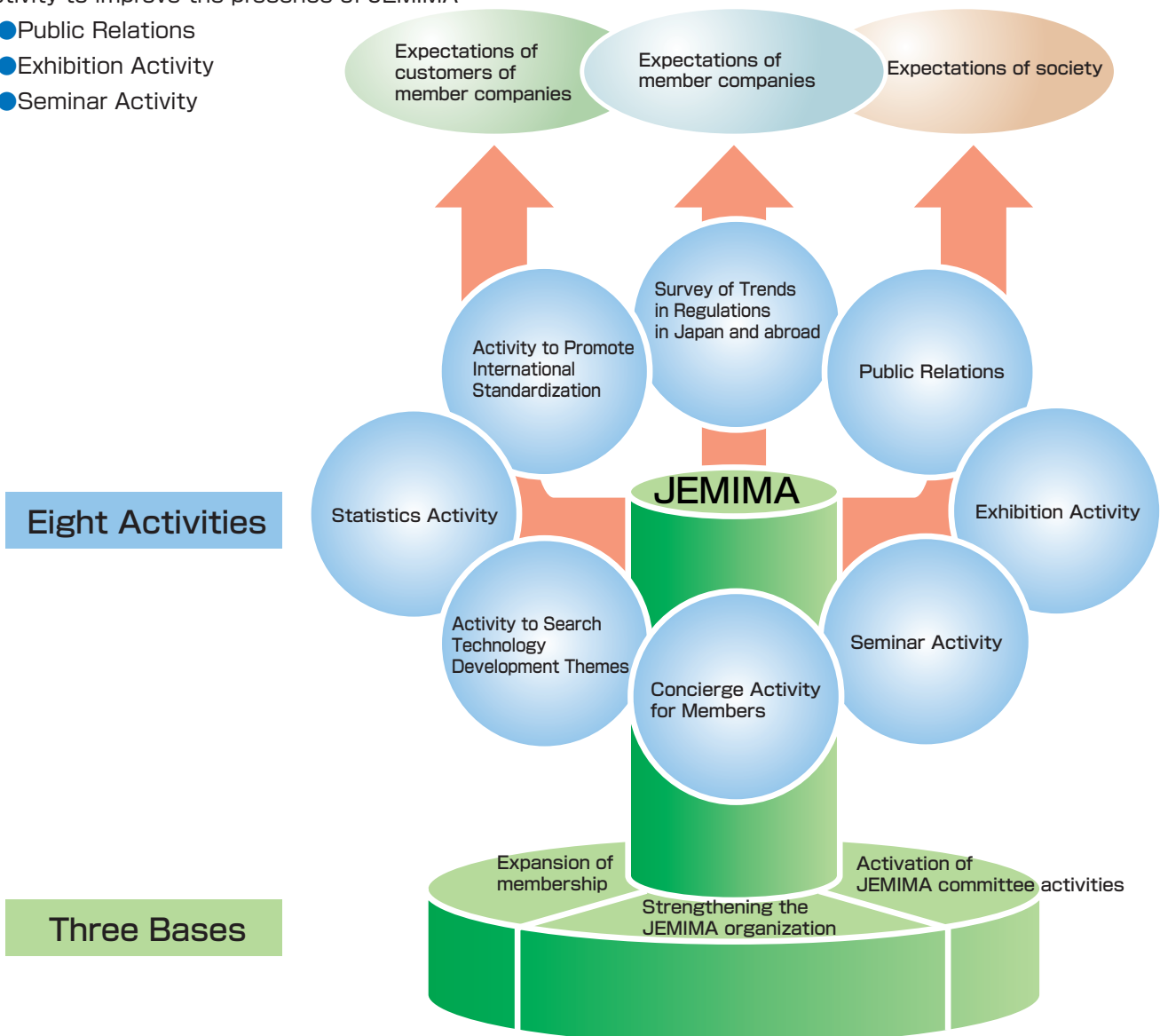
- Activity to Search Technology Development Themes
- Concierge Activity for Members

Activity to improve the presence of JEMIMA

- Public Relations
- Exhibition Activity
- Seminar Activity

## [Three Bases]

- Strengthen the JEMIMA organization
- Activate JEMIMA committees
- Expand membership



# Trends in the Electric Measuring Instruments Industry

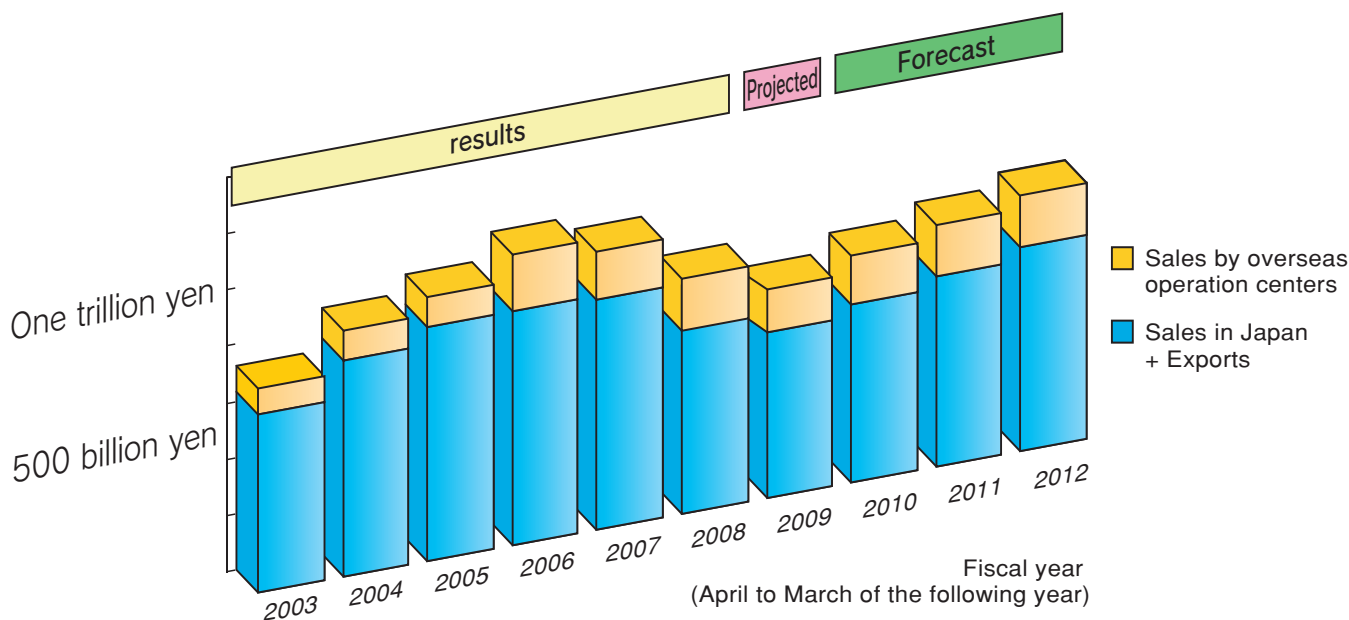
Electric measuring instruments have many and diverse uses including monitoring and control of production systems, quality inspection, and research and development of electronics industries such as semiconductors, digital home appliances, and communications, as well as a wide range of other industries including steel, chemicals, petroleum refining, electric power, foodstuffs, and water works and sewerage. As "mother tools of the industry," electric measuring instruments have supported these industries. Electric measuring instruments are expected to continuously support a wide range of industries while responding to new needs for measurement by high technology and other sectors.

Through various statistical surveys of electric measuring instruments, the Japan Electric Measuring Instruments Manufacturers' Association

(JEMIMA) compiles original statistics and publishes the results of its surveys every year as a forecast report. The following chart is drawn based on the work of JEMIMA's Demand Forecast Committee as of October 2009. Sales of electric measuring instruments including sales of overseas operations totaled ¥998.2 billion in 2007, down by 3% compared with the previous year, after peaking to ¥1,029.7 billion in 2006. Reflecting the sudden recession affecting the entire world and all industries since the autumn of 2008, sales for fiscal 2008 decreased to ¥733.4 billion, down by 26.5% compared with the previous year.

Nevertheless, in the mid-term, sales are forecasted to increase gradually spurred by the development of new energy and by the development and operation of next-generation communications systems.

Actual Sales and Forecast of Sales of Electric Measuring Instruments



# Categories and Products of Electric Measuring Instruments

Electric measuring instruments measure quantities and sizes of objects and phenomena and are grouped into the following eight categories.

**Indicating Instruments** (Instruments to indicate or record electrical quantities including electricity, voltage, electric power, power factors, and frequency as well as apparatus related to them)

Ammeters, Voltmeters, Wattmeters, Frequency Meters, Power Factor Meters, AC-DC Transducers, Shunts, Multipliers, Instrument Transformers, and other measuring instruments

**Electricity Meters** (Instruments to make necessary measurements of demand and supply of electric power and equipment related to them)

AC Watt-Hour Meters, DC Watt-Hour Meters, Remote Indicator Recorders, and others and accessories

**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)

Voltage, Current, and Power Measuring Equipment, Oscilloscopes, Audio Visual Measuring Instruments, Spectrum Analyzers, FFT Analyzers, Logic Analyzers, Equipment for Microprocessor Development, Semiconductor and IC Measuring Equipment, PC Board Testers, Component, Material Measuring Instruments, Transmission Characteristic Measuring Equipment, Network Analyzers, Radio Wave Measuring Equipment, Optical Measuring Instruments, Signal Generators and Oscillators, Recorders and Data Processing Equipment for Test and Measurement and other electric test and measuring equipment

**Test and Measuring Instruments Applying 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 equipment and apparatus for measurement and control in factory automation and in process automation, environmental measurement, and radiation measurement. Also excluded are equipment and apparatus that measure mainly by mechanical means and whose indicator is only partially changed to electronic indication or display.)

Electronic Physical Quantity Measuring Instruments, Electronic Chemical Analyzing Test Instruments, Electronic Sensation Level Test Instruments, Test and Measuring Systems Applying Electronic Technology, and Electronic Measuring Instruments for Medical Application

**Measuring and Control Instruments for FA** (Equipment and systems to measure and control presence or non-presence, status and variables of objects in industrial processes and processing, and assembly industries handling mainly solids includ-

ing powder and granular materials as well as equipment and apparatus related to them, including general-purpose measurement and control equipment that is converted into measurement and control equipment for factory automation.

FA (Factory Automation) Systems (Multi-Layer Systems and Single-Layer Systems), Components for FA (Field Instruments, Control & Measurement Instruments and other equipment, and other FA components), and System Engineering (Basic Design, Customized Software, and others)

**Process Measuring and Control Instruments** (Equipment and systems to continuously measure and control variables of industrial processes that mainly handle fluids, gases, and vapor as well as equipment and apparatus related to them)

Transmitters (Detectors, Converters, etc.) and Transducers with Indicators (Thermometers, Flowmeters, Pressure Gauges, Level-Measuring Instruments, Process Analyzers, and other instruments for industrial measurements), Receiving Instruments (Indicators and Recorders, Controllers, Auxiliary Instruments, and the like), Final Control Elements (Pneumatic Final Control Elements, Electric Final Control Elements, and other final control elements), Process Monitoring and Control Systems (Process Computer Control Systems, Digital Control Systems [Distributed Control Systems], Telemeter, Telecontrol Network, Multi-Point Monitoring and Control Systems, and other control systems for special use), Instrumentation Panels and Auxiliary Equipment (Instrumentation Panels and Operator Consoles, Auxiliary Equipment and Instruments, and Maintenance Instruments), and System Engineering (Basic Design, Package Software, Customized Software, and others)

**Monitoring Instruments for Environmental Quality** (Measuring instruments to measure pollution of the natural environment and changes in natural phenomena as well as equipment and apparatus related to them)

Air Pollution Monitoring Instruments and Systems, Water Pollution Monitoring Instruments and Systems, Offensive Odor Analyzers, Sound Level and Vibration Level Instruments, Automotive Emission Analyzers, Automobile Emission Analyzers, and others

**Radiation Measuring Instruments** (Measuring instruments to measure quality and quantity of radiation [X, Y, B, and  $\alpha$  rays and neutrons and others], measuring instruments that utilize radiation, and other equipment apparatus that are related to them)

Radiation Measuring Instruments, Radiation Monitors, Measuring Instruments Utilizing Ionizing Radiation, Radiation Measuring Apparatus and the Others

# Principal JEMIMA Activities

## 1 Survey of Trends in Regulations in Japan and abroad

Recently, swift response to regulations in Japan and abroad is required in manufacturing and selling products. Precise and speedy surveys are continuously conducted on export regulation, environmental regulation, EMC, product safety, and other aspects in response to member needs. To boost the say of JEMIMA, cooperation with related organizations inside and outside Japan is strengthened and JEMIMA will actively promote dispatch of committee members to the IEC and other bodies. Furthermore, JEMIMA will continue to exert efforts to train and secure personnel that are globally capable.

### (1) Law and regulation compliance and standardization activities

JEMIMA collects information on the establishment, amendment, and abolition of laws and standards inside and outside Japan for EMC and on electrical/optical safety of electric measuring instruments and related products, and provides the information to member companies, as well as to non-member companies, through seminars and other events. A database will be built containing laws and regulations of the countries of the world to provide a service allowing easy search and access by member companies.

In 2009, JEMIMA starts dispatching a member to IEC TC66 (Safety of measuring, control and laboratory equipment) and strengthens its activities in this field in combination with other actions.

### (2) Export control

JEMIMA will continue organizing "Meetings for explanation of security export control (Qualified meetings)" to spread knowledge on export related laws and regulations and to achieve thorough compliance with them. JEMIMA publishes "Guidance on Applicability" and "Hand Carry Procedural Manual", which allow easy understanding of customs clearance procedures even by persons inexperienced in hand carry and contain the latest laws and regulations, useful during business trips outside Japan. Through these activities, JEMIMA is contributing to export control.

### (3) Environmental and green activity

JEMIMA continuously surveys the status of environmental regulations of the world and determines its response. Regulations surveyed include the amended WEEE and RoHS directives, REACH regulation, and the battery directive. JEMIMA proposes its opinions to related organizations inside and outside Japan to have its opinions reflected in the establishment of regulations and standards. JEMIMA continues to organize seminars on environmental regulation for students.

### (4) Activities on the global warming problem

JEMIMA has established a new working group to kick off activities on the global warming problem. The working group supplies information to member companies and studies how the industry should contribute to the solution of this problem, in coordination with Japanese government's Cool Earth 21 Activity and Green IT Promotion Council.

### (5) Study and research on functional safety

JEMIMA is engaged in activities to spread standards on specification, design, installation, operation, and maintenance requirements for safety instrumentation systems for the measurement and control segment for process and factory automation (JIS C 0511-1 to -3).

### (6) Security survey and research of process and factory automation measurement and control segment

As more networks in the manufacturing sector are based on open standards, activities on security and other matters will be surveyed and researched in cooperation with other organizations.

## 2 Activity to Promote International Standardization

We need to propose International standards to the IEC, ISO and other international standardization organizations strategically, with a view to showing technological advances of the Japanese industry and to stimulating the development of the industry. To promote activities to make

proposals for international standard, JEMIMA provides a forum to discuss standardization themes and strengthens its functions as the secretariat to support studies of proposals for, as well as maintenance, management, and implementation of international standards. JEMIMA is also promoting exchange of information among its members on intellectual property rights (IPR) and is performing activities on standards and IPR including supply of information.

### (1) Preparation of draft comments for international standards and dispatch of committee members

Under a contract with the Ministry of Economy, Trade and Industry, JEMIMA operates domestic committees for the following technical committees as a forum for deliberations in Japan related to the international standards organizations (ISO and the IEC) and sends persons of knowledge and experience to international conferences to have Japanese opinions reflected in standards.

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

IEC/TC45 (Nuclear instrumentation)

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

### (2) Promotion of international standardization of IEC/TC65

JEMIMA acted as the secretariat for the IEC/TC65 Plenary International Conference held in 2008 and contributed to the success of the conference. In 2009 onward, JEMIMA will continue to have the opinions of Japan reflected in standards by submitting proposals on standards and participating in deliberations on IEC international standards. As one example, JEMIMA will propose a standard for a communications system\* for field wireless networks to IEC/TC65/SC65C (industrial networks).

(※ A system in the industrial automation sector for the connection of sensors and actuators to controllers and other devices by radio)

### (3) IEC/TC45 Plenary International Conference

JEMIMA organized and operated the IEC/TC45 Plenary International Conference held in Yokohama in September 2009 as the host-nation secretariat, making a contribution to international standardization.



A scene at the 2009 IEC/TC45 Yokohama Conference

### (4) Consistency between JIS and IEC standards

JEMIMA surveys, studies, and develops JIS drafts to achieve consistency between the JIS and IEC standards on electronic indicating instruments, measuring instruments utilizing ionizing radiation, the EMC standards, and other categories.

## 3 Statistics Activity

JEMIMA compiles mid-term forecasts, taking user needs and market trends into consideration, and based on quantitative surveys and the analyses of major instrument sectors. The results are published by press releases and other medium. In addition to this, forecasting of demand from a global viewpoint will be further studied.

## 4 Activity to Search Technology Development Themes

JEMIMA surveys technology development themes that will become common fundamental technologies of high interest among member companies, and explores seeds to realize new businesses for member companies based on such fundamental technologies. JEMIMA provides forums for exchange of views with related academic societies, research organizations, and government agencies and gives support for joint development of searched technology themes among member companies.

### (1) Establishment of the Electronic Measuring Instrument Committee

JEMIMA has established the Electronic Measuring Instrument Committee to tackle issues and tasks from a new perspective, and organize activities in view of the future of the electronic measuring instruments industry, including new business opportunities.

### (2) Participation in preparation of Strategic Technology Roadmap

JEMIMA continues to participate in work to prepare the Strategic Technology Roadmap of the measuring instruments sector under the initiative of the Ministry of Economy, Trade and Industry. Member companies' technological capability and the presence of JEMIMA will be enhanced through a study of future technologies of the measuring instruments sector and through enhancement of the Strategic Technology Roadmap.

## 5 Concierge Activity for Members

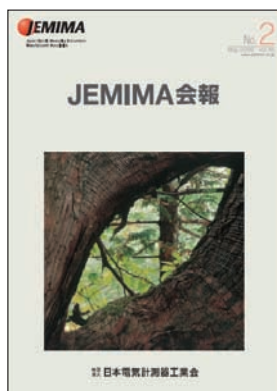
JEMIMA aims to enhance member satisfaction by providing opportunities for contact among its members and for information exchange, and to strengthen its support for problem solving, so as to enhance the satisfaction of member companies. The JEMIMA secretariat visits member companies in order to actively promote communication with its members and to identify new needs and problems, and provides its support for problem solution as its concierge function.

## 6 Public Relations

JEMIMA publishes the results of its activities, particularly those that are useful for society, including surveys of regulatory trends in Japan and abroad.

JEMIMA committee activities are conveyed in a timely manner to member companies. JEMIMA will communicate to society the importance of electric measuring instruments in responses to global environmental problems and in activities for enhanced safety.

Organically linking the JEMIMA website, journal, and e-mail magazine, effective publicity is performed.



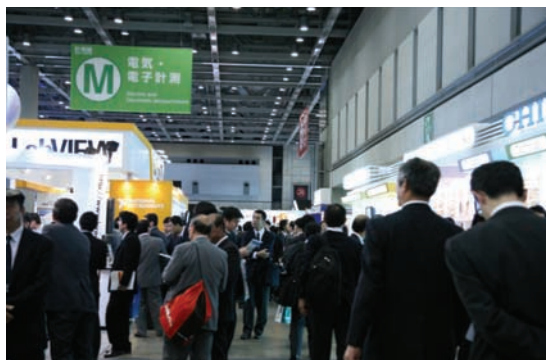
JEMIMA journal



JEMIMA website

## 7 Exhibition Activity

The "Measurement and Control Show" has been organized in October every year alternately in Tokyo and Osaka. The show has enjoyed high evaluation as the largest specialty show of measurement and control technology in Japan since 1955, the first year of the show. In 2009, the show will be organized jointly with INCHEM TOKYO, Maintenance Techno Show, and other shows.



A scene at the Measurement and Control Show 2007 Tokyo

## 8 Seminar Activity

By sponsoring seminars, JEMIMA promotes technology transfer in the field of measurement and control, fostering personnel who support the industry.

JEMIMA plans and periodically organizes seminars that will meet the needs of its member companies, for acquisition of official qualifications and for other purposes.

The following seminars are some of the principal seminars organized by JEMIMA.

- Conformance to Environmental, Safety, and Transport Regulations on Battery
- Lecture Meeting on the Strategic Technology Roadmap 2009
- JCSS Seminar
- Preparatory Study Meeting for the Certification Test for Practical Capability in Export Control
- Present Status of Measuring Instrument Traceability and Realization of National Measurement Standards
- EU Battery Directive and Status of Conformance among Member Countries
- Overview of the Environmental Regulation on Electric and Electronic Equipment and Status of Conformance to It
- For Better Understanding of the Amendments of the RoHS/WEEE Directives



Lecture Meeting on the Strategic Technology Roadmap 2009

## Other Activities

### (1) Materials purchasing

JEMIMA performs researches on risk management in procurement of materials with focus on measures against credit instability such as supplier bankruptcy.

### (2) Promotion of calibration service

Aimed at the development of the calibration service business of member companies, JEMIMA promotes spreading of the Japan Calibration Service System (JCSS), raising demand for it and solving problems related to the JCSS in cooperation with the National Institute for Advanced Industrial Science and Technology and the National Institute of Technology and Evaluation. When necessary, JEMIMA collects opinions of the industry and makes proposals to the administration.

### (3) Study of industrial radio technology

Wireless networks have been introduced into process and factory automation measurement and control segment, and JEMIMA monitors international trends in industrial radio technology and studies utilization of radio peripheral technologies.

# The following publications are published and sold by JEMIMA.

Please visit the JEMIMA website at [www.jemima.or.jp](http://www.jemima.or.jp) to check the latest information on the publications.

## Survey Reports, etc.

Understanding Safety Instrumentation : Explanation of JIS C 0511 "Functional Safety -- Safety Instrumented Systems for the process industry sector" (Issued July 2009)  
Hand Carry Procedural Manual, 6th Version (Issued July 2009)



Guidance on Security Export Control Applicability 2009 (Issued March 2009)      Guidance on Security Trade Control Parameter Sheets  
Mid-term Forecast of Electric Measuring Instruments 2008 - 2012 (Issued December 2008)      Handcarry Procedural Manual  
Security Export Control Textbook for Clear Understanding - From ABC to Practical Operation, Version 2 (Issued January 2007)  
Guidebook for Environmental Measuring Instruments, 6th Version (Issued October 2006)  
Collection of Cases related to Techniques for Invention Exploration (Issued April 2006)  
Guide for Explosionproof Application for Applicants - Intrinsically Safe Explosionproof (Issued March 2005)  
Guide for Explosionproof Application for Applicants - Intrinsically Safe Explosionproof FISCO Model (Issued March 2005)  
Guidelines for Contract for Architecture of Measurement and Control Systems (JEMIMA-01-01-2003) (Issued December 2003)  
Guidelines for Architecture of Control and Monitoring Systems - From Planning to Entering into Contract (JEMIMA-01-01-2001) (Issued March 2002)  
Manual for Operation of Indicating Instruments and AC-DC Transducers in JIS C 1010-1 (Issued May 2001)  
Guide for Explosionproof Application for Applicants - Withstand Voltage and Explosionproof Structure (Issued March 1998)

## JEMIMA Standards

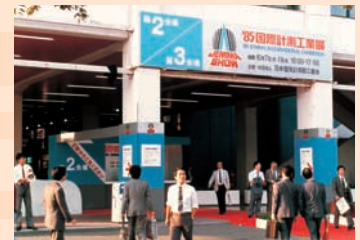
JEMIS 042-2003	Long-term Stability of a Magnetic Flowmeter
JEMIS 041-2002	Face-to-Face Dimensions of a Magnetic Waterworks Meter
JEMIS 040-3-2002	Voltage Variation and Flicker Tolerable Value of Low-voltage Power Supply Systems Used in Industrial Process Measurement and Control Equipment Less Than 16 A in Rated Current
JEMIS 039-2002	Tolerable Values of Electromagnetic Wave Interference Characteristics of Industrial Process Measurement and Control Equipment and Measurement of Them
JEMIS 038-2006	JEMIMA Field Bus
JEMIS 037-11-1999	Testing Method for Voltage Dip, Instantaneous Interruption, and Voltage Variation Immunity of Industrial Process Measurement and Control Equipment
JEMIS 037-8-1998	Testing Method for Magnetic Field Immunity of Commercial Frequency for Industrial Process Measurement and Control Equipment
JEMIS 037-6-1997	Testing Method for Immunity of Conductive Radio Frequency Interference for Industrial Process Measurement and Control Equipment
JEMIS 036-1996	Surge Immunity Testing Method (Amendment 1)
JEMIS 036-1994	Immunity Testing Method for Measurement and Control Equipment
JEMIS 035-1990	General Rules for Indication of Process Analyzer Performance
JEMIS 034-2001	Temperature Measurement Method Using a Thermocouple and Resistance Temperature Sensor
JEMIS 033-1997	Environmental Guidelines for Installation of Microcomputer-applied Measurement and Control Equipment
JEMIS 032-1987	Flow Rate Measurement Method Using an Ultrasonic Flowmeter
JEMIS 030-1986	Test Stylus for Process Measuring Instruments in Nuclear Power Plants
JEMIS 028-1998	Flow Rate Measurement Method Using a Vortex Flowmeter
JEMIS 027-1985	Testing Method for Pressure and Differential Pressure Transmitters for Industrial Processes
JEMIS 026-1992	Glossary of Performance of Industrial Measuring Instruments
JEMIS 024-1984	Items Described in General Specifications of Industrial Measuring Instruments
JEMIS 022-1983	General Rules for Indication of Performance of Industrial Measuring Instruments
JEMIS 021-2000	Glossary of Environment Measurement Technology
JEMIS 020-1981	Clamp Ammeters
JEMIS 019-1980	AC-DC Transducers
JEMIS 018-1979	Meter Relays
JEMIS 017-2007	Environmental Conditions of Electric Standard Chambers
JEMIS 016-1992	Testing Method for Audible Frequency Oscillators
JEMIS 014-1977	Electrochemical Oxygen Leakage Detectors and Alarms
JEMIS 013-1977	Semiconductor-type Toxic Gas Leakage Detectors and Alarms
JEMIS 012-1977	Electrochemical Toxic Gas Leakage Detectors and Alarms
JEMIS 011-1977	Semiconductor-type Combustible Gas Leakage Detectors and Alarms
JEMIS 010-1977	Catalytic Combustion-type Combustible Gas Leakage Detectors and Alarms
JEMIS 011 to 009-1982	Front Painting Colors of Panel Instrumentation and others (002 to 004 withdrawn)

# History

- 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, Toranomom, 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 Product catalog published in English.  
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 Plenary session to establish the JEMIMA as a legal corporate person held.  
JEMIMA is given 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.
- 1963 First issue of the Bulletin published.
- 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.
- 1968 Electric instrument and measuring instrument exhibition held in Tokyo.
- 1974 First issue of the Outlook on the Electric Measuring Instrument Industry  
(currently Mid-term Forecast of Electric Measuring Instruments) published.
- 1977 JEMIMA Newsletter issued.
- 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 Project for promoting maintenance and management of monitoring and measuring instruments started.  
Law related to basic technology development enacted.  
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.
- 1993 JEMIMA authorized to issue certifications related to the taxation system for high levels of energy savings.
- 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.
- 1998 50th anniversary commemorated in May.
- 1999 Y2K problem committee established.  
Research commissioned: Standardizing the standard interface protocols for electric measuring instruments
- 2000 Internet Measurement Exhibition e-EXPO held.  
Research commissioned: Standardizing method of electronics transactions with continuous systems from design to manufacturing
- 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.  
Measurement and Control Show 2006 Osaka held at the Osaka International Convention Center (Grand Cube Osaka).
- 2007 JEMIMA head office relocated from Toranomom, Minato-ku, Tokyo to Shibadaimon, Minato-ku, Tokyo.  
Measurement and Control Show 2007 Tokyo held at Tokyo Big Sight.
- 2008 Keisoku Kaikan Building constructed and inaugurated.  
JEMIMA head office relocated to Nihonbashi-Kaigaracho, Chuo-ku, Tokyo.  
JEMIMA symbol and logo renewed. JEMIMA website renewed.  
60th anniversary commemorated. JEMIMA mid-term forecast published.  
IEC/TC65 plenary meeting held in Tokyo meeting.  
Measurement and Control Show 2008 Osaka held at the Osaka International Convention Center (Grand Cube Osaka).
- 2009 2009 IEC/TC45 (Nuclear measurement) plenary meeting held in Yokohama.  
Measurement and Control Show 2009 Tokyo held at Tokyo Big Sight.



Former Keisoku Kaikan Building (Toranomom)



International Measurement Industry Exhibition 1985



JEMIMA's 50th anniversary



JEMIMA's mid-term vision

# Members List

## Members (79 Companies)

(As of March 17, 2010) (Alphabetical Order)

A&D COMPANY LIMITED	HORIBA STEC, CO., LTD.	RION CO., LTD.
ABB BAILEY JAPAN LIMITED	IWATSU TEST INSTRUMENTS CORP.	RKC INSTRUMENT INC.
ACRORAD CO., LTD.	KIKUSUI ELECTRONICS CORPORATION.	SHIBUKAWA KUWANO ELECTRIC CO., LTD.
AGILENT. TECHNOLOGIES JAPAN, LTD.	KYORITSU ELECTRICAL INSTRUMENTS WORKS, LTD.	SHIMADEN CO., LTD.
ALOKA CO., LTD	KYOSAI TECHNOS CO, LTD.	SHIMADZU SYSTEM SOLUTIONS CO., LTD.
ANRITSU CORPORATION.	KYOWA ELECTRONIC INSTRUMENTS CO., LTD.	SHINKAWA ELECTRIC CO., LTD.
ANRITSU METER CO., LTD.	KOKUYO ELECTRIC CO., LTD.	SHINKO ELECTRIC CO., LTD.
ASASHI PYRO INDUSTRIAL CO., LTD.	LEADER ELECTRONICS CORP.	SHINKO TECHNOS CO., LTD.
CHINO CORPORATION.	MEIDENSHA CORPORATION	SONIC CORPORATION
CHUO ELECTRONICS CO., LTD.	mitsubishi electric corporation	SUKEGAWA ELECTRIC CO., LTD.
DAIICHI ELECTRONICS CO., LTD.	MIWA ELECTRIC CO., LTD.	TAKEMOTO DENKI CORPORATION.
DKK-TOA CORPORATION	MTT CORP.	TAKASAGO, LTD.
EBARAJITSUGYO Co, Ltd.	NAGANO KEIKI CO., LTD.	TEKTRONIX JAPAN, LTD.
EMERSON JAPAN, LTD.	NEC AVIO INFRARED TECHNOLOGIES, CO., LTD.	TOKYO KEIKI INC.
EMIC CORPORATION.	NEW COSMOS ELECTRIC CO., LTD.	TOKYO KEISO CO., LTD.
ENDRESS+HAUSER JAPAN CO., LTD.	NIKKE TECHNO SYSTEM CO., LTD.	TOKYO SEIKO CO., LTD.
ENDRESS+HAUSER YAMANASHI CO., LTD.	NF CORPORATION.	TOM COMMUNICATION INDUSTRIAL CO., LTD.
ENEGATE, CO., LTD.	NOHKEN INC.	TOSHIBA CORPORATION
ENERGY SUPPORT CORPORATION.	OI ELECTRIC CO., LTD.	TOSHIBA TOKO METER SYSTEMS CO., LTD.
ETO DENKI CO.,	OKAZAKI MANUFACTURING CORPORATION.	TOYO KEIKI CO., LTD.
FUJI ELECTRIC SYSTEMS CO., LTD.	OMRON CORPORATION.	TSUDA ELECTRIC METERS CO., LTD.
FUKUDEN INC.	ONO SOKKI Co., LTD.	TSURUGA ELECTRIC CORPORATION.
GRAPHTEC CORPORATION	OSAKI ELECTRIC CO., LTD.	YAMARI INDUSTRIES LIMITED
HAMAMATSU PHOTONICS K.K.	OVAL CORPORATION.	YAMATAKE CORPORATION
HIOKI E.E.CORPORATION	OYO ELECTRONICS, LTD.	YOKOGAWA ELECTRIC CORPORATION
HITACHI HIGH-TECH TRADING CORPORATION	RIKEN KEIKI CO., LTD.	YOKOGAWA METERS&INSTRUMENTS CORPORATION
HORIBA, LTD.		

## Supporting Members (25 Companies and 7 Organizations)

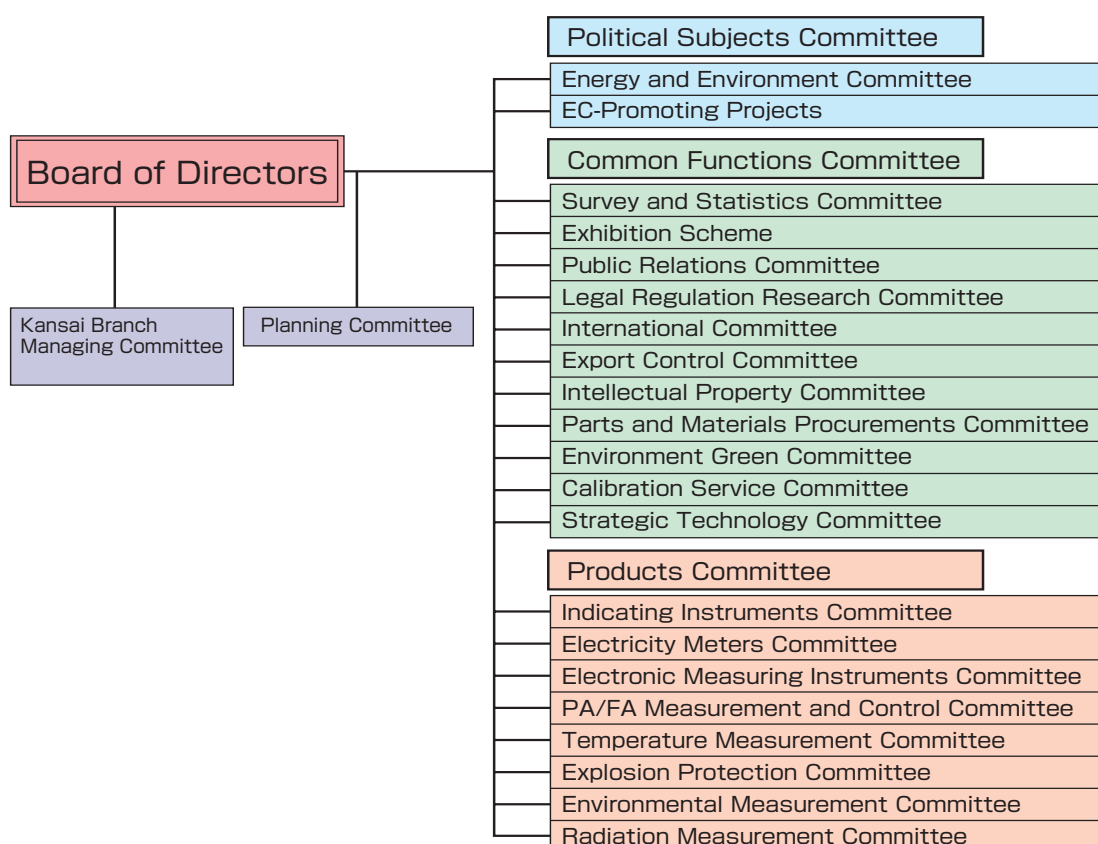
ABB K.K.	KITAHAMA, LTD.	YOKOGAWA RENTAL & LEASE CORPORATION.
ASAHI KOKUSAI TECHNEION CO., LTD.	KYOTO EIC CO., LTD.	
COSMOS CORPORATION	MORITANI & CO., LTD.	KANSAI ELECTRONIC INDUSTRY
EIWA CORPORATION	NATIONAL INSTRUMENT JAPAN CORPORATION.	DEVELOPMENT CENTER
FUJI ELECTRIC HOLDINGS CO.,LTD.	PEPPERL+FUCHS K.K.	JAPAN ELECTRIC MEASURING
CORPORATE R&D HEADQUARTERS	PTT COMPANY LIMITED	INSTRUMENTS DISTRIBUTORS ASSOCIATION
ADVANCED TECHNOLOGY LABORATORY	ROHDE&SCHWARZ JAPAN K.K.	JAPAN ELECTRONICS AND INFORMATION
FUNDAMENTAL TECHNOLOGY RESEARCH CENTER	SEKI TECHNOTRON CORP.	TECHNOLOGY INDUSTRIES ASSOCIATION
FUJISAFETY SUPPORT	SHIMADA ELECTRIC CO., LTD.	RELIABILITY CENTER FOR ELECTRONIC
COOPER INDUSTRIES JAPAN K.K.	SPECTRIS CO., LTD.	COMPONENTS OF JAPAN
CORPORATION	STACK ELECTRONICS CO., LTD.	SEMICONDUCTOR EQUIPMENT ASSOCIATION
GE SENSING JAPAN, LTD.	SÛSUMU CO., LTD.	OF JAPAN
HAZAMA SOKKI CO., LTD.	TOYOTA TSUSHO ELECTRONICS CORPORATION	THE SOCIETY OF INSTRUMENT AND CONTROL
KISTLER JAPAN Co., LTD.	TUV RHEINLAND JAPAN LTD.	ENGINEERS
		TRON ASSOCIATION

# Board Members

(As of March 17, 2010)

CHAIRMAN	SEIJI ONOKI	President Chief Executive Officer,	Yamatate Corporation
VICE CHAIRMAN	HIROMICHI TODA	President and Director,	Anritsu Corporation
VICE CHAIRMAN	ISAO UCHIDA	Chairman of the Board,	Yokogawa Electric Corporation
VICE CHAIRMAN	ATSUSHI HORIBA	President and CEO,	HORIBA,Ltd. (Director, Kansai Branch)
EXECUTIVE DIRECTOR	JUNJI YOSHIHARA		
DIRECTOR	HIROYUKI FUJITA	President,	IWATSU TEST INSTRUMENTS CORPORATION
	TSUNEO TAKAHASHI	President,	NF Corporation
	TETSUO HOSOKAWA	Senior Executive Director,	NEC Avio Infrared Technologies Co., Ltd.
	YOSHIIHIDE WATANABE	Chariman & Chief Executive Officer,	OSAKI ELECTRIC CO., LTD.
	KAZUHIDE OKAZAKI	EXECUTIVE VICE PRESIDENT,	OKAZAKI MANUFACTURING COMPANY
	KAZUO KOBAYASHI	President and CEO,	Kikusui Electronics Corp.
	ISAMU TAKESHITA	President,	SHIMADZU SYSTEM SOLUTIONS CO., LTD.
	YASUO MIYAKE	President,	Takemoto Denki Corporation
	KATSUMITSU KOYAMA	ADVISER TO BOARD,	CHINO CORPORATION
	SUNAO YAMASHITA	D.Eng Chairman & CO-CEO,	DKK-TOA CORPORATION
	MICHIO MURAI	Industrial Systems Division Vice President,	TOSHIBA Corporation
	TATSUYOSHI YOSHIIKE	President & CEO,	HIOKI E.E. CORPORATION
	TOSHIHIRO UMEDA	President,	Hitachi High-Tech Trading Corporation
	MOTOFUMI MATUMURA	Executive Director,	Fuji Electric Systems Co., Ltd.
	TOSHIFUMI HAYAKAWA	General Manager General Planning Engineering Dept,	MITSUBISHI ELECTRIC CORPORATION
	SHOHEI NORITAKE	President,	YAMARI INDUSTRIES, LIMITED
	SHIGEHICO HIROTA	President,	LEADER ELECTRONICS CORP.
MANAGER	JUN KUROSAKA	President,	Endress+Hauser Japan Co., Ltd.
	TETSURO KOBAYASHI	Senior Managing Director,	Japan Overseas Development Corporation
	TESSHI SHIGEMORI	President,	NEW COSMOS ELECTRIC CO., LTD.
	TERUO HIRUMA	Chairman of the Board and CEO,	Hamamatsu Photonics K.K.

# Organization Chart



# Membership Information

## ▼Membership Qualification

Regular members: Corporate enterprises in the manufacturing business of electric measuring instruments

Supporting members: Enterprises engaged in sales, import, export, lease, and rent of electric measuring instruments, enterprises dealing in related parts and consumable products, enterprises in related services (maintenance, system engineering, and software), and groups related to JEMIMA.

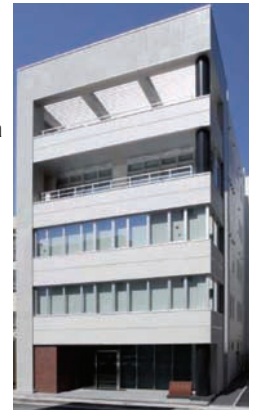
## ▼Privileges to Members

Regular members

- The latest information can be obtained through committee activities.
- Regular-member price for exhibition at the Measurement and Control Show in Tokyo and Osaka
- Member prices for purchase of publications of JEMIMA and JEMIMA standards (JEMIS)
- Member prices for participation in JEMIMA seminars, lecture meetings, and other events
- The JEMIMA journal and e-mail magazine will be delivered.
- Exercise of voting right at JEMIMA general meetings

Supporting members

- Supporting-member price for exhibition at the Measurement and Control Show in Tokyo and Osaka
- Member prices for purchase of publications of JEMIMA and JEMIMA standards (JEMIS)
- Member prices for participation in JEMIMA seminars, lecture meetings, and other events
- The JEMIMA journal and e-mail magazine will be delivered.



Keisoku Kaikan Building

※For information on JEMIMA membership, please contact the General Affairs Department, JEMIMA, on 03-3662-8181 (+81-3-3662-8181).

## Contact Address

### ■Head Office (Keisoku Kaikan Building)

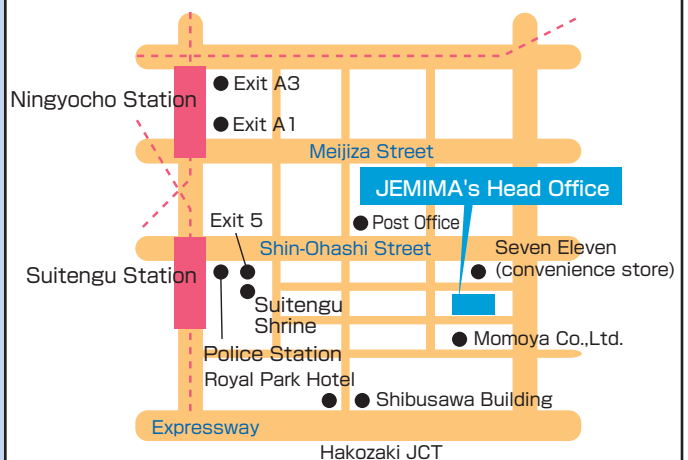
Address:

Keisoku Kaikan Building, 2-15-12, Nihonbashi-Kakigaracho, Chuo-ku, Tokyo 103-0014

TEL: +81-3-3662-8181 FAX: +81-3-3662-8180

Transportation Access:

- Tokyo Metro Hanzomon Line, Suitengu Station (Exit 5), 3 minutes on foot
- Tokyo Metro Hibiya Line, Ningyocho Station (Exit A1), 7 minutes on foot
- Toei Asakusa Line, Ningyocho Station (Exit A3), 10 minutes on foot



### ■Kansai Branch

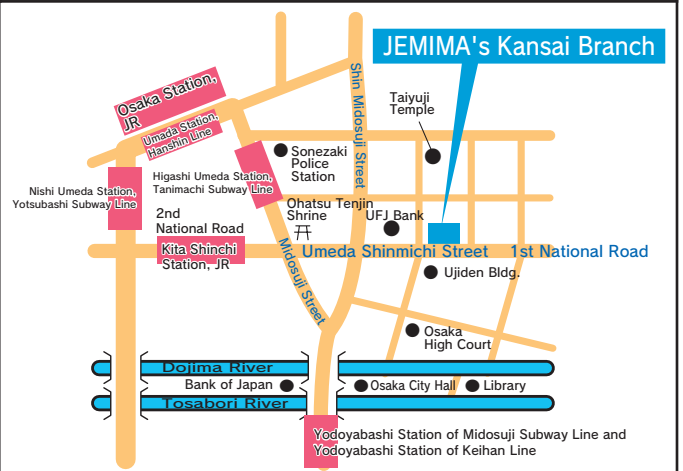
Address:

8F Denshi Kaikan, 6-8-7, Nishi-Tenma, Kita-ku, Osaka-city, Osaka 530-0047

TEL: +81-6-6316-1741 +81-6-6316-1751

Transportation Access:

- JR, Osaka Station, Midosuji Minami Exit, 15 minutes on foot
- Hankyu Line, Umeda Station, Central Exit on 2F or Exit on 3F, 20 minutes on foot
- Hanshin Line, Umeda Station, South Exit, 10 minutes on foot
- Higashi Umeda Station, North East Exit (Toward Exit 7), 9 minutes on foot
- Keihan Line, Yodoyabashi Station North Exit (Exit 1), 15 minutes on foot



Issued by: Japan Electric Measuring Instruments Manufacturers' Association

www.jemima.or.jp