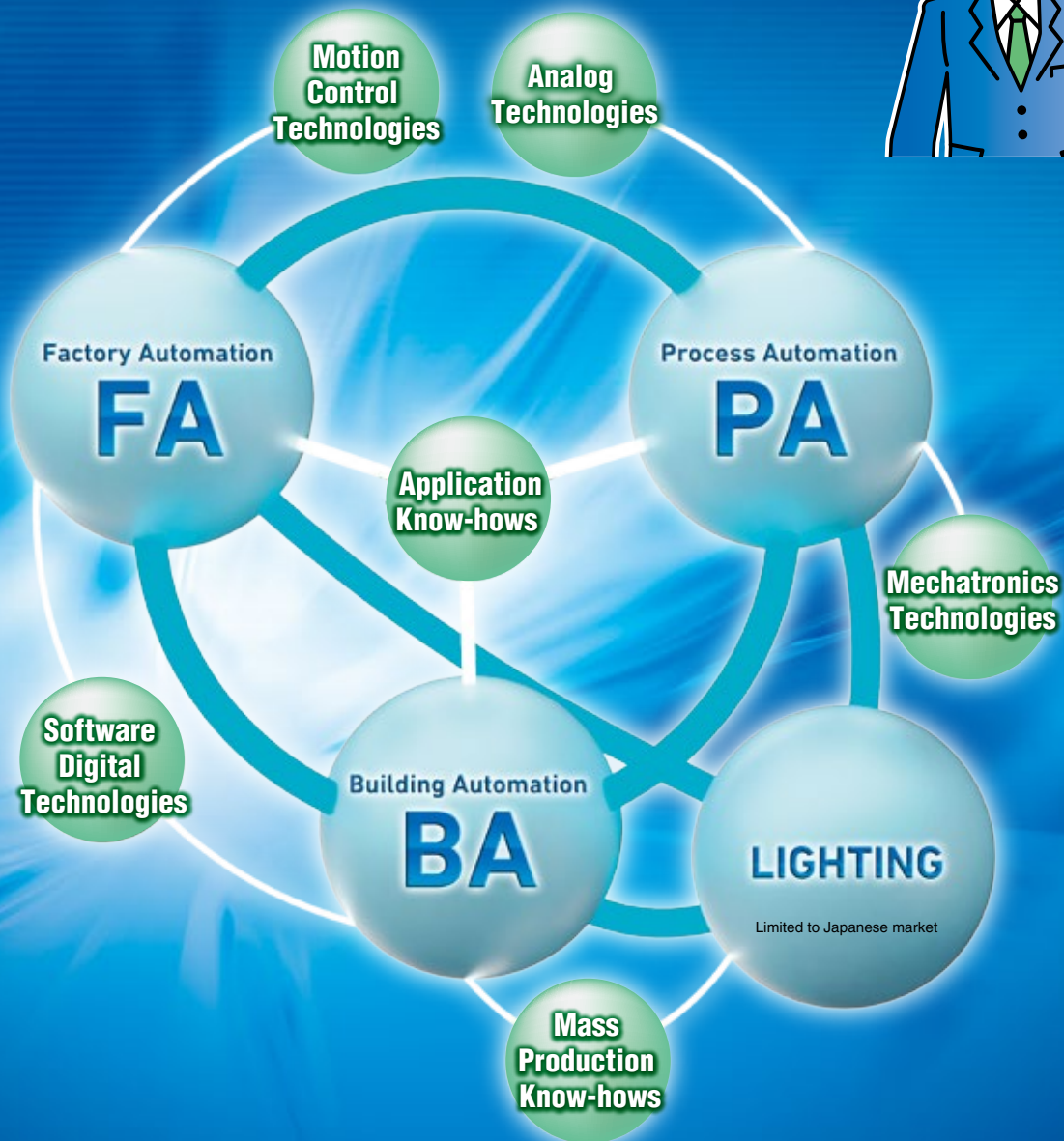




# Product Guide

Offering electronic products,  
ranging from analog control devices to IoT devices

## M-System



# Product Guide



## M-System is a leading manufacturer of signal conditioners.

The product series introduced here covers only some of M-System's products. For products not introduced here, please visit M-System's website or see its product catalogs.

### Signal Conditioners

Converting measured signals to desired signals.



### 2-wire Signal Conditioners

Signal conditioners of on-site installation type with no power source required.



### Power Transducers

Calculating, displaying, and outputting power quantities.



### Indicators

Expressive digital panel meters and bargraph meters.



### Tower Lights

Tower lights provided with communicating function.



### Limit Alarms

Monitoring measurement signals and outputting alarm contact signals.



### Remote I/O

Operating as an interface of measured signals with field networks.



### Temperature Controllers

Temperature controller models of on-panel type and in-panel type.



### Paperless Recording System

A recorder with no paper required, to which the latest IT technology is applied.



### BA & Energy Monitoring Components

From closed systems to open systems.



Limited to Japanese market

### Software (SCADA)

Data collection software



### PID Control Components

New PID controllers incorporating the latest technology.



### Telemetry System & Web Data Loggers

A remote transmission and monitoring system using diverse types of media, such as dedicated lines, telephone lines, or wireless lines.



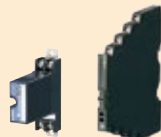
### Final Control Components

A proposal for mechatronics conversion of the final control elements.



### Lightning Surge Protectors

Lightning surge protectors designed specifically for electronic equipment.



### LED Tubes

A universal LED tube that does not require rewiring of existing lamp holders.



Limited to Japanese market

# M-System's Five Service Policies

## Established under the idea of its customer-first principle.



All M-System's products and services are provided outside Japan through M-System's authorized distributors. M-System is trying to enhance the customer satisfaction with following 5 service policies. As to the terms and conditions of a specific service, consult M-System for details.

### 1. Continued Products Availability



- We have basic policy of not to discontinue our products without providing compatible replacements.
- We always strive to procure all the electronic parts for our products. When a certain electronic part is no longer available, we will make best effort to provide a product compatibly replaceable with the existing product as long as there is substantial demand for such product.

### 2. Fast and Precise Delivery



- The standard manufacturing lead time for most of our products is 5 days.
- Quick Service Center is available for 24-48 hours shipment.
- Once a delivery time is promised, the customer can of course count on us to deliver them precisely on time.

### 3. Special Specifications Service with no extra charge



- Special specification products can be supplied without additional charge for major product series, except for those requiring excessive labor or materials.
- We are putting our effort into expansion of the scope of Special Specifications Service to all of our products. Special Specification Service will be available to more product series in the future.

For detailed terms and conditions applicable to each specific product, consult M-System.

### 4. Special Repair Service



- During the service period of 36 months from the date of purchase, we will provide free repair service for a damage or malfunction caused by a user's mistake when we determine at our discretion that cause of the damage or malfunction falls into the "Service Coverage" set out as conditions of this service. Such free repair service will be limited to one repair per cause of the damage or malfunction.

For detailed terms and conditions applicable to this service, consult M-System.

### 5. Factory Setting Service with no extra charge



- Configuration setting for programmable products is free of charge upon the customer's request for once when ordering, except for those requiring special engineering (e.g. multi-function PID controllers).

For detailed terms and conditions applicable to each specific product, consult M-System.





M-System offers approximately 3,700 kinds of products, ranging from analog control devices to IoT devices.

## BA & Energy Monitoring Components

### Web-enabled Gas Demand Monitor

GDMC

Limited to Japanese market



Smart phone<sup>(\*)1</sup>

### Web-enabled Power Demand Monitor

EDMC

Limited to Japanese market



Smart phone<sup>(\*)1</sup>

### Intelligent Controller

Limited to Japanese market



Supporting BACnet

### BA Controller & DDC Supporting LONWORKS and Modbus

Limited to Japanese market



BA controller



VAV controller



FCU controller

## Telemetry System & Web Data Loggers

### Web Data Logger

DL8 Series



Smart phone<sup>(\*)1</sup>

CE

### Web Data Logger

DL30 Series

Japanese version only



### Web Data Logger

TL2 Series

Limited to Japanese market



### Multiplex Transmission System

D3 Series



## Lightning Surge Protectors

M-RESTER Series

### Surge Protector for Photovoltaic System



7 models



Sensors / Transmitters (provided by the user)



(\*)1 M-System does not provide mobile terminals (smart phones, tablets) or mobile network operator services. (\*)2 Tension-clamp terminal block type - Magnet mounting

# PC / DCS / PLC (provided by the user)

## Paperless Recording System

Web-enabled DAQ System  
Tablet Recorder

TR30 Series



Tablet<sup>(\*)</sup> CE

TFT Color  
LCD Display

71VR1



96 mm  
(3.78")  
square size  
(1/4 DIN size)

CE

## Indicators

Digital Panel Meters

W96 × H48 mm (3.78" × 1.89")



8  
models

CE

Ultra-slim digital panel meter  
stuck with a magnet<sup>(\*)</sup>  
47NL Series



12  
models

CE

LED display type  
47L Series



5  
models

LCD display type  
47D Series

Bargraph  
Indicators

48N Series



13  
models

CE

W36 × H144 mm  
(1.42" × 5.67")

## 2-wire Signal Conditioners

Head-mounted  
Signal Conditioners

27/26-UNIT  
Series



11  
models

CE IS/Ex

Field-mounted  
Signal Conditioners

27HU-B/B6U-B



CE IS/Ex

Terminal Block Type  
Signal Conditioners

B5-UNIT Series



5  
models

CE

## Signal Conditioners

Plug-in Socket Mounted  
Signal Conditioners

Signal conditioners with OEL display

M1E Series

OEL  
display



5  
models

CE

Compact  
signal conditioners

M2 Series (Mini-M)



77  
models

CE cULus

Compact signal conditioners  
with OEL display

M2E Series (Mini-M)

OEL  
display



12  
models

CE

Plug-in Socket Mounted  
Signal Conditioners

Space-saving dual  
output signal  
conditioners

W2 Series (Mini-MW)



27  
models

CE cULus

Isolation  
Amplifiers

20 Series



49  
models

Plug-in Socket Mounted  
Signal Conditioners  
with LCD display

M-UNIT Series



32  
models

Ultra-slim  
Signal  
Conditioners

M6 Series



63  
models

CE cULus

Surge Protector  
for Communication  
Networks

CE



RS-422 / RS-485 Ethernet CC-Link

CC-Link IE Field DeviceNet LONWORKS

FOUNDATION Fieldbus PROFIBUS-PA



Ethernet lightning surge  
protector ideal for  
surveillance cameras

Plug-in Base Mounted  
Surge Protector

26  
models



CE

# Software (SCADA)



## Touch Panel Operation

73VR Series



144 mm (5.67") square size

CE

## Field Indicators

Loop powered Indicator  
6DV/6DV-B



CE IS/Ex

## Tower Lights

### Tower Light

920 MHz Band Multi-hop Wireless System

Limited to Japanese market



### Wireless LAN Tower Light



### Open Network Capable Tower Light



CC-Link  
Modbus/TCP

### Discrete Input Tower Light



34 models

CE

## Rack-mounted Signal Conditioners



40 models

Dual output super-mini signal conditioners  
M8 Series (Pico-M)

CE

## Terminal Block Type Compact Signal Conditioners

Super-mini terminal block signal conditioners

M5 series



14 models

CE

Terminal block dual output signal conditioners

W5 series



8 models

CE

## Front-configurable Signal Conditioners

MX-UNIT Series



12 models

CE

## Power Transducers

### Power Transducers



18 models

CE

M4 screw connection power transducers

LT-UNIT Series



32 models

Plug-in power transducers

K-UNIT Series

### Multi Power Transducer



920 MHz Band Multi-hop Wireless System

Limited to Japanese market

### Multi Power Monitor and Transducer



96 mm (3.78") / 110 mm (4.33") square size

7 models

CE

Multi power monitor with 4-line display

54/53-UNIT Series

CC-Link Modbus LONWORKS

## Limit Alarms

### Programmable Alarms



6 models

Alarms with LED display  
AS4 Series

CE CULUS

OEL display



6 models

CE

Compact alarms with OEL display  
M2E Series (Mini-M)



2 models

CE

Compact alarms with LCD display  
M7E-UNIT Series

### Thumbwheel Switch Adjustments Type Alarms



12 models

Direct sensor input analog alarms  
AE-UNIT Series

## Surge Protector with Life Monitor



13 models

## Field Transmitter Cable Conduit Mount Surge Protector



6 models

CE IS/Ex





# LED Tubes

## LED Tubes

LS Series

Limited to Japanese market



# Remote I/O

## Wireless-compatible equipments

Limited to Japanese market

920 MHz Band  
Multi-hop Wireless System

Modbus/TCP Modbus



## Compact, Mixed Signal Remote I/O R30 Series

EtherCAT CC-Link IE field

EtherNet/IP \* PROFINET \*

Modbus/TCP \* MECHATROLINK \*

\*Consult M-System



14  
models  
CE

## Multi-channel, Mixed Signal Remote I/O R3 Series

CC-Link CC-Link IE field DeviceNet

Modbus/TCP Modbus

PROFINET TLink LONWORKS

MECHATROLINK FL-net

EtherNet/IP 920 MHz Band  
Multi-hop Wireless System  
Limited to Japanese market



116  
models  
CE

## Expandable, Compact Remote I/O R7 Series

CC-Link DeviceNet Modbus/TCP

Modbus TLink LONWORKS

MECHATROLINK FLEX NETWORK\* HLS High-speed Link System



251  
models  
CE c RU US

## Ultra-slim, Mixed Signal Remote I/O R6 Series

CC-Link Modbus DeviceNet

PROFINET Modbus/TCP TLink



33  
models  
CE

## One-Port Lightning Surge Protector for Power Supply



6  
models  
CE

# PID Control Components

## Multi-function PID Controllers

SC Series



6  
models  
CE

# Temperature Controllers



In-panel type  
Temperature controller  
R3-TC2



On-panel type  
1/4 DIN size, Temperature controller  
TC10EM

96 mm  
(3.78")  
square size  
(1/4 DIN size)  
CE

# Final Control Components

## Electric Actuators

MSP/MRP Series



22  
models  
CE



CE PSN1



PRP

## Electric Actuators

PSN/PRP Series



CE  
Position Sensors  
2-wire Position Transmitter  
VOS2T



3  
models  
Manual Loaders  
Analog backup station  
ABF3





**M-System's website provides full of product information with convenient tools.**  
**www.m-system.com**

**Specification information search**

You can search data sheets, instruction manuals, etc. and compare the specifications of desired models by entering the model numbers or keywords. You can also narrow your search from the product category.

**Product introduction per category**

Introduces M-System's all products classified by category.

**Search from application areas**

M-System introduces application examples of products classified by application area.

**Download**

You can gain access to M-System's download pages, such as the Product Catalog, Software Download & Upgrade, and Data Sheet Download (by Series) pages.



English

**Versatile websites in other languages as well.**

M-System provides product information in English, Japanese, Chinese, and Korean.



Japanese



Chinese



Korean



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