Find Complete Product Information on Our Global English Website.

www.mgco.jp

2024-01
6-0006
EC-Z908 500526 Rev. 2

Product Guide

Complete Lineup of Automation Instruments

Motion Control Technologies

Analog Technologies

Factory Automation
FA

Application Know-hows

Process Automation
PA

Mechatronics Technologies

Software Digital Technologies

Building Automation
BA

LIGHTING
Limited to Japanese market

Mass Production Know-hows

Services & Support
You can access all downloadable materials including setup tools (software), drivers and device profiles, catalogs and videos.

Demo Site
Access demo sites to view standard and user-configured monitoring windows of web-enabled data loggers and other products.

Video Library
Videos on the products and the company, educational materials, virtual exhibition can be viewed on YouTube.

Specifications & Manuals
Enter either a product model number or a keyword to search for data sheets, instruction manuals and other related documents.
Compare specifications to find exactly what you need.
You can narrow your search by product categories.

Product Category Index
Go directly to a product category to find more about products introduced in this catalog and even more selections.
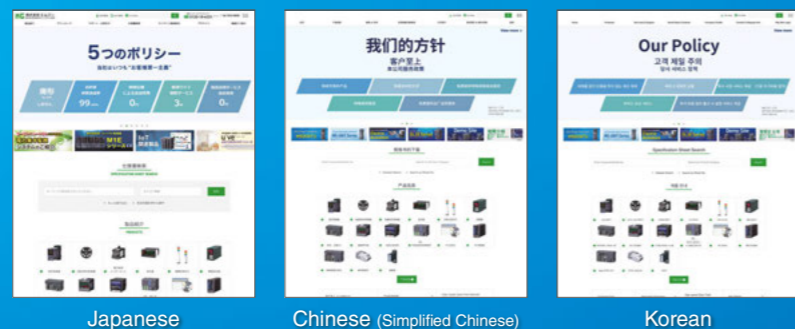
Application Examples
Find products suitable for your application fields.

Regional Language Websites
Product information including data sheets, instruction manuals and videos is available in multiple languages.

日本語   ENGLISH
中文（简体）   한국어

Japanese   Chinese (Simplified Chinese)   Korean

Website   Request Info

MG CO., LTD.
(formerly M-System Co., Ltd.)
www.mgco.jp

Your local representative:

MG CO., LTD.
(formerly M-System Co., Ltd.)
www.mgco.jp

Make Greener automation

Product Guide

We are a leading manufacturer of signal conditioners.
The product series introduced here covers only some of our products. For other products, please visit our website.

Signal Conditioners
Converting measured signals to desired signals.

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

Power Monitoring Components
Calculating, displaying, and outputting power quantities.

Indicators
Graphic panel without dedicated display, expressive digital panel meters and bargraph meters.

Tower Lights
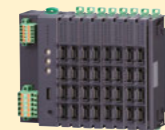Tower lights provided with communicating function.

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
Paperless recorder to which the latest IT technology is applied.

BA & Energy Monitoring Components
From closed systems to open systems.

Software (SCADA)
Data collection software

PID Control Components
New PID controllers incorporating the latest technology.

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

IoT Components
Products with a variety of functions for IoT.

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

LED lighting and UVC LED are products of MGMT Co., Ltd.   Limited to Japanese market

Five Service Policies
Established under the idea of **Customer-First** principle

All our products and services are provided outside Japan through our authorized distributors.
We are trying to enhance the customer satisfaction with the following five service policies.
As to the terms and conditions of a specific service, consult us 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 us.

4. Special Repair Service

❚ During the service period of 36 months from the date of shipment, 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 us.

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 us.

BA & Energy Monitoring Components

DDC for Open Building Automation Systems

DDC for HVAC Control Supporting Modbus, LONWORKS, and BACnet

BA3 Series

W140 x H130 x D120 mm (5 modules)

Limited to Japanese market

VAV/FCU Controller Supporting Modbus and LONWORKS

BA9 Series

(Left to right)
W125 x H140 x D55 mm (BA9-VAV)
W70 x H120 x D28.5 mm (BA-RC2)

Limited to Japanese market

Web-enabled Power Demand Monitor

EDMC

W50 x H80 x D123 mm (EDMC)

Smartphone (*1)

Limited to Japanese market

Remote I/O

BA8NS Series

W24 x H115 x D72 mm (BA8NS-CONV)

Limited to Japanese market

Remote I/O for HVAC Control Systems

Multi-channel, Scalable Remote I/O

R3 Series

W224 x H130 x D120 mm (8 modules)

Compact, Expandable Remote I/O

R7 Series

W115 x H53 x D54 mm (R7M-SV4)

Telemetering System

WIRED

Multiplex Transmission System

D3 Series

W224 x H130 x D120 mm (8 modules)

Telemetering System

D5 Series

W231 x H96 x D106.5 mm (8/9 modules)

Limited to Japanese market

WIRELESS

900-920 MHz ISM Band Multi-hop Wireless System

For limited markets

W45 x H97 x D41 mm (excl. antenna) (WL5MW1)

W60 x H110 x D130 mm (excl. antenna) (WL40W1-US1)

W226 x H381.5 x D206 mm (IB10W2)

W90 x H352 x D60 mm (IT60SW5)

IoT Components

Web Data Logger

Web Enabled RTU
DL8 Series

W79 x H115 x D73 mm (2 x 12 mm-wide I/O modules)

Smartphone (*1)

Web Data Logger

DL30 Series

W100 x H110 x D110 mm (2 slots)

Web-enabled DAQ System Tablet Recorder

TR30-G W100 x H110 x D110 mm (2 slots)

TR75 W288 x H288 x D180 mm (TR75)

Limited to Japanese market

Remote Graphic Panel

RGP Series

Limited to Japanese market (RGP6)

RGP6
W115 x H55 x D100 mm (RGP6)

RGP30
W50 x H110 x D128 mm (RGP30)

WIRELESS

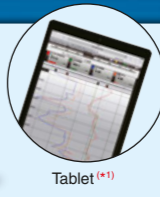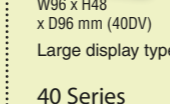### 900-920 MHz ISM Band Multi-hop Wireless System

For limited markets

W45 x H97 x D41 mm (excl. antenna) (WL5MW1)

W60 x H110 x D130 mm (excl. antenna) (WL40W1-US1)

Paperless Recording System

Web-enabled DAQ System Tablet Recorder

TR30-G W100 x H110 x D110 mm (2 slots)

Tablet (*1)

TR75 W288 x H288 x D180 mm (TR75)

Limited to Japanese market

Indicators

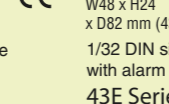### Remote Graphic Panel
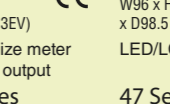
RGP Series

Limited to Japanese market (RGP6)

RGP6
W115 x H55 x D100 mm (RGP6)

RGP30
W50 x H110 x D128 mm (RGP30)

Digital Panel Meters

W96 x H48 x D96 mm (40DV)
Large display type

40 Series

W48 x H24 x D82 mm (43EV)
1/32 DIN size meter with alarm output

43E Series

W96 x H48 x D98.5 mm (47LV)
LED/LCD display

47 Series

Bargraph Indicators

48N Series
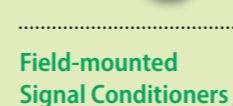W36 x H144 x D103 mm (48NAV)

Two-wire Signal Conditioners

Head-mounted Signal Conditioners

27/26-UNIT Series
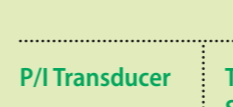
W44 x H44 x D20.7 mm (27HU)
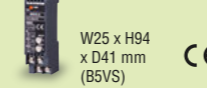
IS/Ex

Field-mounted Signal Conditioners

27HU-B/ B6U-B

W110 x H118 x D92 mm (B6U-B)

IS/Ex

P/I Transducer

PVT etc.

W67 x H70 x D30 mm (PVT)

Terminal Block Type Signal Conditioners

B5-UNIT Series

W25 x H94 x D41 mm (B5VS)

Signal Conditioners

Plug-in Socket Mounted Signal Conditioners

Compact signal conditioners
M2/M2E Series (Mini-M)

W23 x H76 x D124 mm (M2VS)

OEL display

W29.5 x H83 x D132 mm (M2EXV)

Plug-in Socket Mounted Signal Conditioners

M-UNIT Seiries

W50 x H80 x D127 mm (SV)

Compact signal conditioners with programming display
M1E Series
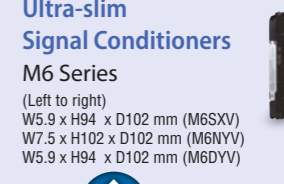
W36 x H99 x D125 mm (M1EXV-2)

OEL display

Terminal Block Type Signal Conditioners

M5-UNIT Series

W25 x H97 x D41 mm (M5VS)

Can be added in a tight space of existing panel

Isolated two outputs
W5-UNIT Series

W45 x H97 x D41 mm (W5VS)

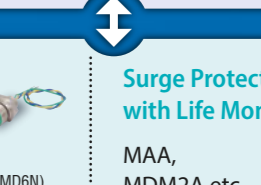### Plug-in Socket Mounted Signal Conditioners

K-UNIT Series

W50 x H80 x D123 mm (KVS)

Ultra-slim Signal Conditioners

M6 Series

(Left to right)
W5.9 x H94 x D102 mm (M6SXV)
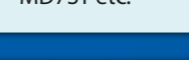W7.5 x H102 x D102 mm (M6NYV)
W5.9 x H94 x D102 mm (M6DYV)

Lightning Surge Protectors

M-RESTER Series

Ultra-slim Surge Protector

MD7 Series

MD7AST, MD7ST etc.

W7 x H95 x D100mm (MD7AST)

IS

Plug-in Base Mounted Surge Protector

MDPA-24, MDP-RB etc.

W23.5 x H100 x D81 mm (MDPA-24)

W31.5 x H100 x D80 mm (MDP-RB)

Field Transmitter Cable Conduit Mount Surge Protector

Ex

(Left to right) DIA32 x L72 mm (excl. leadwire) (MD6N)
DIA32 x L62 mm (excl. leadwire) (MD6P)
DIA40 x L79 mm (excl. leadwire) (MD6T)

Surge Protector with Life Monitor

MAA, MDM2A etc.

W50 x H80 x D123mm (MAA)

W29.5 x H76 x D124mm (MDM2A)

Sensors / Transmitters (provided by the user)

Software (SCADA)

LED Lighting & UVC LED
LED lighting and UVC LED are products of MGMT Co., Ltd.
Limited to Japanese market

PID Control Components

Multi-function PID Controllers
SC Series
ABL
Limited to Japanese market

W72 x H144 x D274 mm (SC100)

W96 x H96 x D167 mm (ABL)

TFT Color LCD Display
71VR1
96 mm sq.
W96 x H96 x D115.5 mm (71VR1)

Touch Panel Operation
73VR Series
144 mm sq.
W144 x H144 x D172 mm (73VR21)

Remote I/O

Expandable, Compact Remote I/O
R7 Series
W140 x H55 x D57 mm (R7G4HML3-6-SV4)

Temperature Controllers

W112 x H130 x D120 mm (4 modules)

W96 x H96 x D108 mm (TC10EM)

In-panel type, 2 loops
R3-TC2

On-panel type, 2 loops
TC10EM
96 mm sq.

Weighing Indicator
W162 x H72 x D119.6 mm (W100)
W100 Series

Field Indicators
Loop powered indicator
6DV/6DV-B
W70 x H70 x D21 mm (6DV)
W110 x H118 x D92 mm (6DV-B)
IS/Ex

Tower Lights
Wireless products are for limited markets

ISM Band Wireless Tower Light
WLAN Tower Light
Open Network Capable Tower Light
CC-Link Modbus/TCP
Discrete Input Tower Light

(Left to right) W90 x H352 x D60 mm (IT60SW5)
W98 x H667.4 x D98 mm (IT60W1)
W94 x H490.5 x D94 mm (IT60SA3)

Slice Type, Scalable Remote I/O
R8 Series
W152.5 x H115 x D59 mm (8 x 12 mm-wide I/O modules)

Slice Type, Scalable Remote I/O
R80 Series
W104.5 x H115 x D73 mm (2 x 12 mm-wide I/O modules, 1 x 24 mm-wide I/O modules)

Final Control Components

Electric Actuators Driven by Stepping Motor
MSP10/MRP10

STANDARD FEATURES
- Auto-setup (MSP10)
- Modbus
- Terminal box
- Position indicator (MRP10)

Modbus

MSP10
W110 x H258 x D210 mm (MSP10)

MRP10
W111 x H227.5 x D211.5 mm (MRP10)

Rack-mounted Signal Conditioners
Dual output super-mini signal conditioners
M8 Series (Pico-M)
W17.5 x H48 x D75 mm (M8VS)
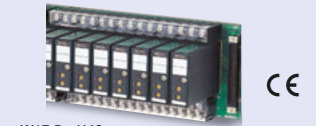
Super-mini signal conditioners
M80 Series
W14 x H39.2 x D50.5 mm (M80YV)

Power Monitoring Components
Modbus

Multi power transducers
M5XWTU
M5XWT
M50XWTU

(Left To right)
W45 x H97 x D41 mm (excl. antenna) (WL5MW1)
W25 x H97 x D41 mm (M5XWTU, M5XWT)
W28 x H105 x D41 mm (M50XWTU)

Wireless gateway
WL5MW1
Limited to Japanese market

Multi-channel, Scalable Remote I/O
R3 Series
W224 x H130 x D120 mm (8 modules)

Compact, Scalable Remote I/O
R30 Series
W100 x H110 x D110 mm (2 slots)

Isolation Amplifiers
20 Series
(Top left to bottom right)
W49 x H14.5 x D18 mm (20VS2-1)
W54 x H15 x D25 mm (20VS7-205D)
W47.5 x H16 x D10.7 mm (20VS5-204)

I/P and P/I Transducers
HVP etc.
W25 x H120 x D150 mm (HVP)

Power Transducers
M4 screw connection power transducers
LT-UNIT Series
W72 x H111 x D143 mm (LTWT)

Multi Power Monitor and Transducer
96 mm sq.
110 mm sq.
Multi power monitor with 4-line display
53/54-UNIT Series
W96 x H96 x D115 mm (53U)
CC-Link Modbus LONWORKS BACnet

Ultra-slim, Scalable Remote I/O
R6 Series
W78 x H99 x D116 mm (euro terminal type, 8 slots)

Plug-in Remote I/O
R10 Series
W36 x H99 x D125 mm (R10M-CT4E)

Compact Electric Actuators
MSP/MRP Series
CC-Link Modbus DeviceNet

MSP4
W98 x H MAX215 x D107 mm (MSP4)

MRP4C2
W98 x H144 x D174 mm (MRP4C2)

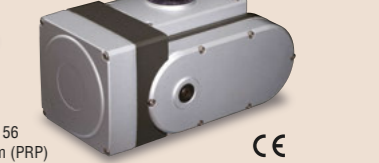### Base-free interconnecting signal conditioners
M60 Series
W8 x H108 x D102 mm (M60SVS)

Front-configurable Signal Conditioners
MX-UNIT Series
W50 x H80 x D123 mm (MXV)

Limit Alarms

Programmable Alarms
Alarms with LED display
AS4 Series
W50 x H80 x D132 mm (AS4V)

OEL display
Compact alarms with OEL display
M1E Series
W36 x H99 x D125 mm (M1EAXV-2)

OEL display
Compact alarms with OEL display
M2E Series (Mini-M)
W29.5 x H83 x D132 mm (M2EAXV)

■ OPEN NETWORKS
CC-Link CC-Link IE Field CC-Link IE TSN DeviceNet PROFIBUS
Modbus/TCP Modbus LONWORKS MECHATROLINK T-Link EtherCAT
FL-net EtherNet/IP FLEX NETWORK HLS High-speed Link System OPC UA

Electric Actuators
PSN/PRP Series

PRP-2
W344 x H382 x D282 mm (PRP-2)

WIRELESS
900-920 MHz ISM Band Multi-hop Wireless System
For limited markets

W45 x H97 x D41 mm (exc. antenna) (WL5MW1)

W60 x H110 x D130 mm (excl. antenna) (WL40W1-US1)

W226 x H381.5 x D206 mm (IB10W2)

W90 x H352 x D60 mm (IT60SW5)

One-Port Surge Protector for Power Supply
MAKN, MAT3 etc.
W18 x H97 x D65 mm (MAKN)
W50 x H98 x D60 mm (MAT3)

Surge Protector for Communication Networks
MDW5-CC etc.
RS-422/RS-485 Ethernet
CC-Link CC-Link IE Field
DeviceNet LONWORKS
FOUNDATION Fieldbus
PROFIBUS-PA
W45 x H97 x D41mm (MDW5-CC)

Ethernet lightning surge protector ideal for surveillance cameras
MDCAT etc.
W38 x H93.5 x D35 mm (MDCAT)

Surge Protector for Photovoltaic System
MATPH etc.
W50 x H98 x D60 mm (MATPH)

PSN1
W140 x H MAX327.5 x D182 mm (PSN1)

PRP
W167 x H156 x D312 mm (PRP)