Paperless Recorder on the PC

PC RECORDER



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

No External Power Supply Needed!

Paperless Recorder that is as easy to use as a digital multimeter

USB connector for power supply and communication (USB Type-C)



Analog input measuring range (16 points)

Measuring range is selected by every 8 points when ordering.

Three measuring ranges:

- Wide span range: ±10 V DC to ±0.8 V DC
- Middle span range: ±0.8 V DC to ±80 mV DC
- Narrow span range: ±80 mV DC to ±10 mV DC

PC Recorder

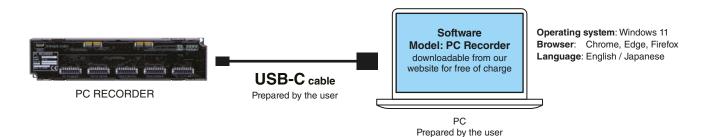
Model: R7K4GUS-G16D4

Tension clamp terminal block



Easy-to-wire tension clamp terminals for I/O signals Probes, alligator clips and other tools must be prepared by the user.

What You Need to Start Data Recording



Application Examples



Type testing (e.g. thermostatic chamber)



Equipment failure analysis



Laboratory testing on moving vehicles

Enhanced Screens Beside the Trend Graph

The operability of PC Recorder follows that of the existing products of Web Data Logger and Tablet Recorder which have already been used and familiar to many users.

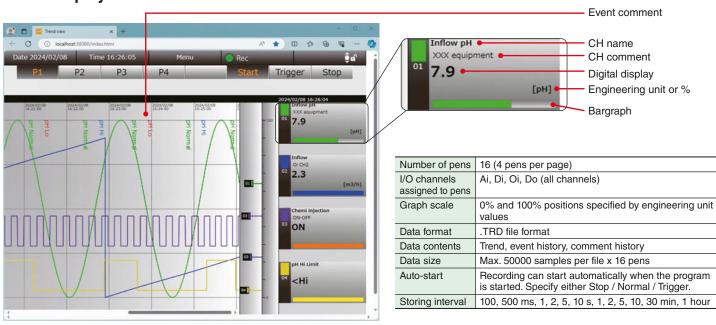


There are four trend graph pages, each of which contains 4 pens (16 pens in total).

Each pen is assigned to any channel of all I/Os (Ai / Di / Oi / Do).

Zone name, zone color, event comment, alarm output, delay timer, trigger recording and reset function value, can be specified to each analog input channel (Ai) and operation input channel (Oi).

Trend Display Functions

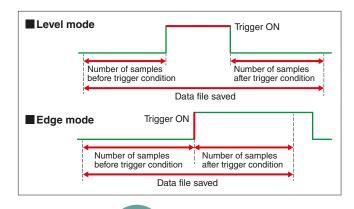


Trigger Recording

User can preset specific trigger conditions to certain analog/digital/operation channels, and choose how many data samples before and after an event condition is triggered, must be recorded.

It is an effective way to save only the necessary data for failure monitoring and analysis.

Two operation modes are available: "Level" mode and "Edge" mode.





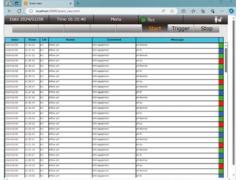
Overview

CHANNELS

All channels are updated and displayed on the overview screen. For analog input channels, engineering unit values and percent values are toggled by clicking over the display.

LATEST EVENTS

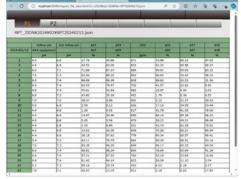
Event View



The latest 500 events, triggers, alarms are listed among the analog and operation input signal channels.

REPORT FORMS

Report File



Report file data is generated every hour on the hour (1H data). Sampling method can be selected from momentary / average / maximum / minimum values.

MAIN SPECIFICATIONS

APPLICATION SOFTWARE

Model: PC Recorder

Downloadable from our website for free of charge

Operating system: Windows 11

Browser: Chrome, Edge, Firefox
Language: English / Japanese

COMMUNICATION

Media: USB Number of connections: 1

GENERAL SPECIFICATIONS

Connection

Power input, communication: USB Type-C connector

(female) (USB cable provided by user)

I/O: Tension clamp terminal

Isolation: Analog input to discrete input or output to USB

connector (power input or communication)

ANALOG INPUT (Ai)

Input signal: DC voltage, 16 points (2 ranges by 8 points

among wide span, middle span and narrow span

specified when ordering)

Wide span voltage: ±10 V DC to ±0.8 V DC
Middle span voltage: ±0.8 V DC to ±80 mV DC
Narrow span voltage: ±80 mV DC to ±10 mV DC

Sampling rate: 100 ms

OPERATION INPUT (Oi)

Mathematical and other functions can be applied to analog

input values using ratios and constants.

Function: Addition/Subtraction / Multiplication / Division /

Extraction of square root / Moving average / First order lag / exp / Common logarithm / Natural logarithm / Peak hold (maximum) / Peak hold (minimum) / Power / Analog integration / F-value operation / Antilogarithm / Scaling / Time

DISCRETE INPUT (Di)

Common: Negative common (PNP) per 2 points Rated detecting voltage: Approx. 5 V DC (internal supply)

Sampling rate: 100 ms

DISCRETE OUTPUT (Do)

Photo MOSFET relay: 2 points Rated load voltage: 48 V peak AC/DC

Output timing: 100 ms

INSTALLATION

Current consumption: ≤120 mA

5 V DC power input by USB bus powered

(high powered device)

Operating temperature: -10 to +55°C (14 to 131°F)
Storage temperature: -20 to +65°C (-4 to +149°F)
Operating humidity: 30 to 90 %RH (non-condensing)
Mounting: Desktop, surface or DIN rail (35 mm rail)

Weight: 150 g (0.33 lb)

PERFORMANCE

Conversion accuracy: ±0.1 % (narrow span voltage input

±20 mV DC: ±0.2 %, ±10 mV DC: ±0.3 %)

Conversion rate: 4 msec.

Temp. coefficient: ±0.015 % /°C (±0.008 %/°F)

(±0.03 %/°C [±0.02 %/°F] with ±10 mV DC)

Insulation resistance: ≥100 MΩ with 500 V DC

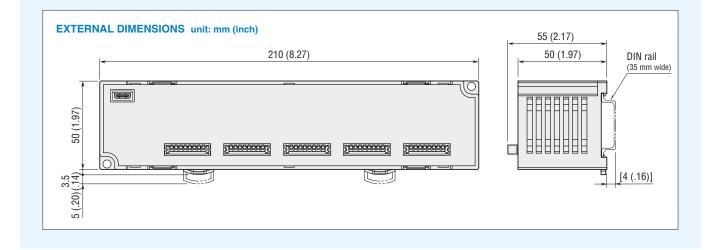
Dielectric strength: 1500 V AC @1 minute (analog input to

discrete input or output to USB connector (power input or communication))

STANDARDS & APPROVALS

EU conformity: EMC Directive

EMI EN 61000-6-4 EMS EN 61000-6-2







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