Rev. 0

1/8 DIN

COLOR LCD DISPLAY **PAPERLESS RECORDER**

Compact Recorder Fitting into the Tiniest Spaces



NEW





MG CO., LTD. www.mgco.jp Make Greener automation

Color LCD Display Paperless Recorder

I/O SPECIFICATIONS

Analog input

- Input signal: DC voltage, 2 points (non-isolated between channels)
- Select input range from the following (ch. 1, ch. 2): • $\pm 10 \text{ V DC}$ to $\pm 0.8 \text{ V DC}$ (input resistance: $\geq 1 \text{ M}\Omega$)
- $\pm 0.8 \text{ V DC to } \pm 0.8 \text{ V DC (input resistance: } \geq 100 \text{ k}\Omega)$ • $\pm 0.8 \text{ V DC to } \pm 80 \text{ mV DC (input resistance: } \geq 100 \text{ k}\Omega)$
- $\pm 80 \text{ mV DC to } \pm 10 \text{ mV DC (input resistance: } <math>\geq 100 \text{ k}\Omega$)

Discrete input/output

Discrete input: 1 point (rated detective voltage: approx. 5 V DC (internal supply)) Discrete output: 1 point (photo MOSFET relay)

TREND DATA STORING

When an SD card is placed, trend data, event data and comment data are recorded in the internal memory and then transferred to the SD card at the specified time intervals.

Recording method

- Normal recording: Recording continuously until recording is manually stopped.
- Trigger recording (edge): Recording up to 100 samples of data before and after the trigger condition is met, respectively.
- Trigger recording (level): Recording data during the trigger condition is met.

Comment data

100 ms

500 ms

1 sec.

2 sec

5 sec.

10 sec.

1 min.

2 min.

5 min.

10 min.

30 min.

1 hour

Max. number of input characters: 32

10 min., 30 min., 1 hour

30 min., 1 hour, 6 hours

1 hour, 6 hours, 12 hours

6 hours, 12 hours, 1 day

6 hours, 12 hours, 1 day

1 day, 1 week, 1 month

1 day, 1 week, 1 month

1 day, 1 week, 1 month

1 week, 1 month

1 day, 1 week

1 day, 1 week

1 hour, 6 hours, 12 hours, 1 day

• Recorded content: Time, comment

• Number of events: 1000 (per file)

Storing rate SD card writing timing

SD card writing timing

Sampling rate

• 100 ms

Storing rate

• 100 ms, 500 ms, 1 sec., 2 sec., 5 sec., 10 sec., 1 min., 2 min., 5 min., 10 min., 30 min., 1 hour

Trend data

- Number of channels: Max. 4
 (Select from Ai, Di, Do, Oi)
- Number of events: Max. 50000 samples × number of channels (per file)

Event data

- Event: Zone transition for Ai and Oi, change of Di status
- Recorded content: Time, event
- Number of events: 3000 (per file)

Writing period

Approx. recording time period for TRD format with a 16 GB micro SD card

Storing rate	1 pen	2 pens	4 pens	
100 ms	8 years	4 years	2 years	
500 ms	10 years	10 years	10 years	
1 sec.	10 years	10 years	10 years	
2 sec.	10 years	10 years	10 years	
5 sec.	10 years	10 years	10 years	
10 sec.	10 years	10 years	10 years	
1 min 1 hour	10 years	10 years	10 years	
Note 1) Only the trend recording is enabled.				

Approx. recording time period for CSV format with a 16 GB micro SD card

Storing rate	1 pen	2 pens	4 pens	
100 ms	4 years	2 years	1 year	
500 ms	10 years	10 years	5 years	
1 sec.	10 years	10 years	10 years	
2 sec.	10 years	10 years	10 years	
5 sec.	10 years	10 years	10 years	
10 sec.	10 years	10 years	10 years	
1 min 1 hour	10 years	10 years	10 years	
Note 2) Only the trend recording is enabled.				
(The values are calculated as 8 single-byte				
characters)				

Viewer software

The data stored in the SD card can be displayed on the dedicated Viewer Software (Model: TRViewer)*1. Also, data can be converted to CSV format file.

(*1) Viewer Software (Model: TRViewer) is downloadable for free from our web site.

ALARM CONTACT OUTPUT

Do designated as alarm contact output can be turned ON at event occurrence.

Event

- Zone output of Ai, Di, Oi
- \bullet Communication failure in e-mail reporting, FTP client, Modbus/TCP and SLMP

FUNCTIONS USING LAN/INTERNET

E-mailing

E-mail reporting function is available at event occurrence or at the specified time. Encrypted communication is supported. (SMTP over SSL)

- Number of e-mail recipients: 8
- Number of event reporting messages: 4
 Number of regular reporting messages: 4
- Channel status: Ai, Di, Oi, Do data status can be included in a mail.

FTP client

- Files stored in the SD card can be uploaded to an FTP server.
- Supports FTPS (Explicit mode)

FTP server

Reading and deleting files in the SD card by an FTP client is available. Simultaneous connection: 1

Operation verified FTP client: FFFTP

Timekeeping

SNTP client

- The recorder's internal time can be adjusted automatically.
- Time adjustment is performed when the power is turned on and at the specified time.



EXTERNAL DIMENSIONS unit: mm (inch)





MG CO., LTD. www.mgco.jp

Your local representative: