DX200C
DAQSTATION Circular Recorder

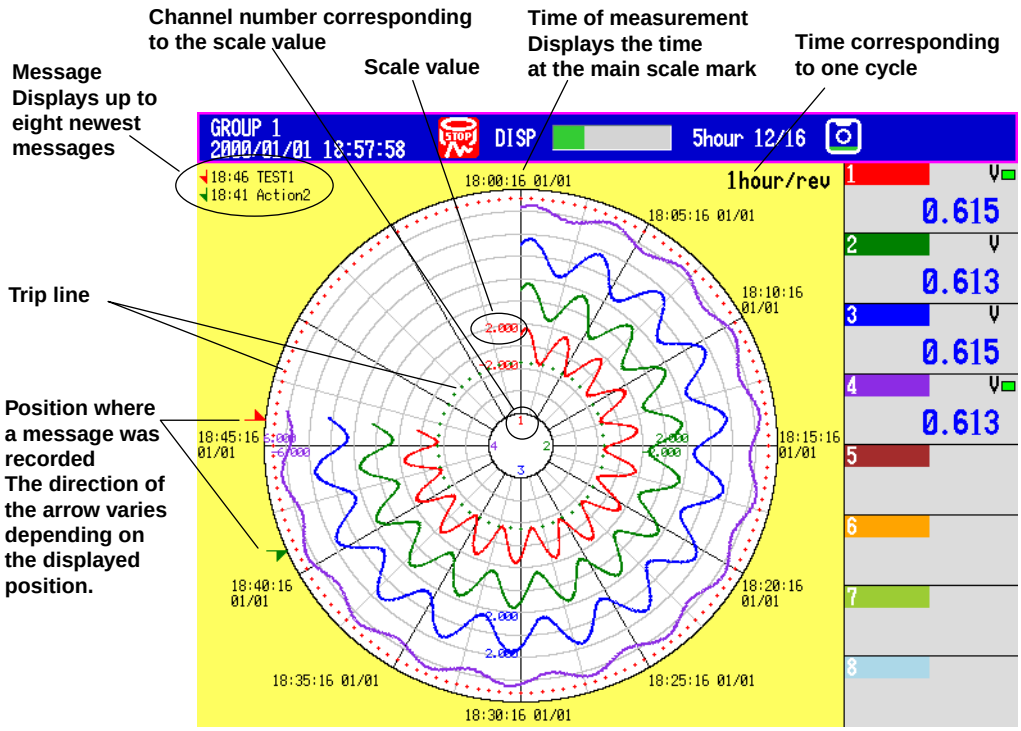
IM 04L03A01-01E
2nd Edition

2nd Edition : March 2001 (YK)

Thank you for purchasing the DX200C with the circular display function.
This User's Manual describes the circular display function of the DX200C. Please use this manual along with the DX200 User's Manual (IM04L02A01-01E).

Overview

This recorder is a DX200C DAQSTATION circular recorder.

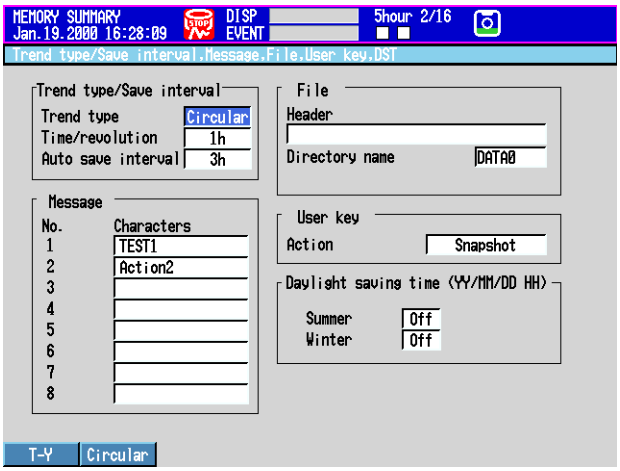


You can select circular display or normal trend display in the setting mode.
If you select trend display through screen switching in the operation mode, circular display or trend is shown based on the setting mode setting.

Procedure

Switching to circular display and setting the time corresponding to one cycle

1. Press the MENU key to enter the setting mode.
2. Press the soft key corresponding to [#3 Trend type/Save interval, Message, File, User key, DST].



3. Set [Trend type] to [Circular]. To display the normal trend, select [T-Y].
4. Set the time corresponding to one cycle on the circular display to [Time/revolution]. Select from 1h, 2h, 6h, 8h, 12h, 16h, 1day, 2day, 1week, 2week, and 4week.
5. Press the DISP/ENTER key.

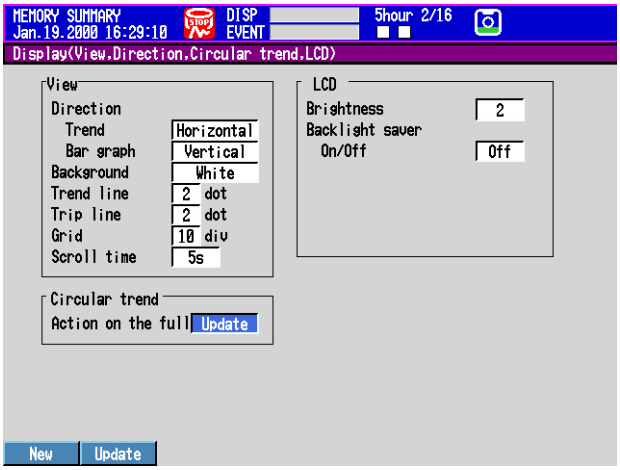
Note

On the DX200C, 15s/div and 30s/div cannot be selected as the display update rate even when T-Y is set as the trend type. Please see page 7-3 of the User's Manual (IM04L02A01-01E).

Setting the update method of the screen

Select the method by which the screen is updated: (1) one scale mark of the old waveform is cleared when the remaining amount of waveform reaches one scale mark or (2) clear the entire waveform when one cycle of the waveform has been recorded.

1. Press the MENU key to enter the setting mode.
2. Press the soft key corresponding to [#4 Display] to display the display menu.
3. Press the soft key corresponding to [#4 View, Direction, Circular trend, LCD].
4. Select [New] or [Update] for [Action on the full].
5. Press the DISP/ENTER key.



Scale marks

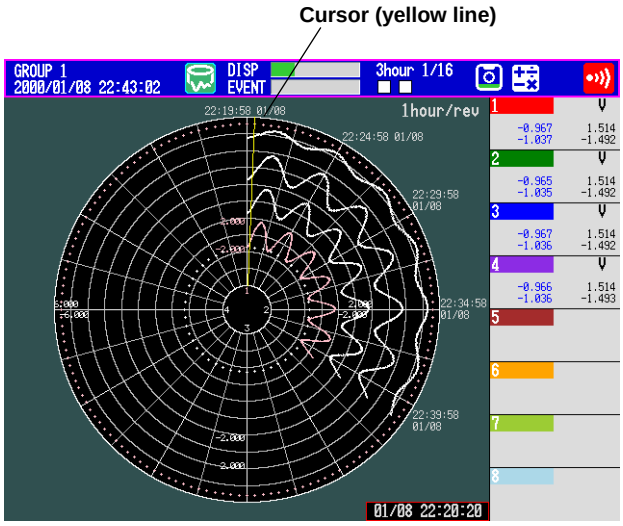
The number of scale marks varies depending on the time corresponding to one cycle. Scale marks consists of main scale marks and subscale marks. Main scale marks are used to divide the cycle into sections; subscale marks are used to divide between the main scale marks. The number of divisions created by main scale marks and subscale marks are as follows:

Time/rev	Number of Divisions Created by Main Scale Marks	Number of Divisions Created by Subscale Marks	Time per Scale Mark	Display Update Rate
1h	12	2	2 min 30 s	2 s
2h	12	2	5 min	4 s
6h	12	2	15 min	10 s
8h	8	2	30 min	20 s
12h	12	2	30 min	20 s
16h	8	2	1 h	40 s
1day	12	2	1 h	1 min
2day	12	2	2 h	2 min
1week	7	4	6 h	4 min
2week	7	4	12 h	8 min
4week	4	7	24 h	20 min

Historical trend

The procedure for displaying the historical trend is the same as the procedure for displaying the historical trend for the normal trend. See section 4.6, "Using the Historical Trend" in the User's Manual IM04L02A01-01E.

When the circular display is shown, the historical trend and data being measured cannot be displayed simultaneously.



To display data before or after the current displayed data, carry out the following procedure:

1. To display data before the current waveform (older waveform), hold down the left arrow key until the cursor moves to the beginning of the waveform. To display data after the current waveform (newer waveform), hold down the right arrow key until the cursor moves to the end of the waveform. When the cursor moves to the beginning or the end of the waveform, the cursor no longer moves even if you continue to press the arrow key.
2. Press the same arrow key again to change the displayed waveform.

Selecting another file

To display data from another file, select the file from the memory summary.

Message

On the historical trend, up to eight newest messages that exist before the cursor position can be displayed.

Event data

When displaying event data using the historical trend, the time corresponding to one cycle is automatically determined from the sampling interval of the event data to be displayed as follows:

Scan interval	Time/rev	Number of Divisions Created by Main Scale Marks	Number of Divisions Created by Subscale Marks
125 ms	5 min/rev	5	4
250 ms	10 min/rev	5	4
500 ms	20 min/rev	5	4
1 s	30 min/rev	6	4
2 s	1 h/rev	12	2
5 s	2 h/rev	12	2
10 s	6 h/rev	12	2
30 s	12 h/rev	12	2
60 s	1 day/rev	12	2
120 s	2 day/rev	12	2
300 s	1 week/rev	7	4
600 s	2 week/rev	7	4

Addition of Communication Commands

C1 Sets the trend type.

Syntax: C1 p1<terminator>

p1: Trend type

T-Y	Normal trend display
CIRCULAR	Circular display

Query: C1?

Example: Set to circular display.

```
C1 CIRCULAR
```

C2 Selects the update method of the circular display.

Syntax: C2 p1<terminator>

p1: Update method

NEW	Clear the entire screen.
UPDATE	Clear the data corresponding to one scale mark.

Query: C2?

Example: Set the update method to the method in which the entire screen is cleared.

```
C2 NEW
```

SW Sets the waveform update rate (for circular display)

Syntax: SWp1, p2<terminator>

p1: Time corresponding to one cycle (1H, 2H, 6H, 8H, 12H, 16H, 1DAY, 2DAY, 1WEEK, 2WEEK, 4WEEK)

p2: Auto-save interval (10MIN, 20MIN, 30MIN, 1H, 2H, 3H, 4H, 6H, 8H, 12H, 1DAY, 2DAY, 3DAY, 5DAY, 7DAY, 10DAY, 14DAY, 31DAY)

Query: SW?

Example: Set the time corresponding to one cycle to one day and the auto-save interval to two days.

```
SW 1DAY, 2DAY
```

Description:

- For the equivalent command for the normal trend display, see User's Manual IM04L02A01-17E.