

General Specification

GS 04L01A01-S120E

DX100, DX200 /S120 Enhancement Option

DX100, DX200 /S120 option provides numerous functional enhancements for these models. Specify /S120 in the option code for these models to order this option. /S120 includes the following functions:

Addition of TC and RTD input types

TC: Kp vs Au7Fe, PLATINEL, PR40-20, NiNiMo, WRe3 - 25, W/WRe26, Type N (AWG14)

RTD (without /N1 option):

JPt50, Ni100 (SAMA), Ni100 (DIN), Ni120, J263*B, Cu53, Cu100

RTD (with /N1 option):

JPt25

Expanded text messages

Pre-set text messages:

There are 7 groups (group 1 to 7) of pre-set messages with 8 messages per group. Each message has up to 16 characters.

Free text messages:

There are eight types of free text messages, with 16 characters each. Free text messages can be written using keys, communication commands and via Web.

Message types and writing enable/disable:

Message type	Key operation	Comm. command	Remote Input	USER key	Web
Gr 1 to 6	✓	✓			
Gr 7	✓	✓	✓	✓	
Free message	✓	✓			✓

System messages:

Power failure message, display rate change message

Text entry operation:

Cursor moves crosswise(only for DX100)

Automatic monitor window recovery functions

General function:

Jump to user-defined default monitor display after a pre-set time.

Recovery Time:

1min, 2min, 5min, 10min, 20min, 30min, 1h

Note: This function is effective for monitor window only.

Split trend display functions(only for DX100)

General function:

Selection for Split Trend display in horizontal trend mode from the DISPLAY setting menu. Digital display is disabled in this mode.

Specifications:

Format; horizontal 2 splits screen

Number of scales;

Up to three scales per left and right screen

Number of digital values;

Up to two channels per left and right screen

Historical screen;

Displayed only for the specified one group

Display group list;

Designated group	Groups displayed in trend		Groups displayed in status display area
	Left screen	Right screen	
Gr 1	Group 1	Group 2	Group 1
Gr 2	Group 2	Group 3	Group 2
Gr 3	Group 3	Group 4	Group 3
Gr 4	Group 4	Group 1	Group 4

Logarithmic scale and exponential display functions

General functions:

A logarithmic scale for Trend Display pen scales (common logarithm) can be selected. Process values are expressed as an exponent.

General specifications:.

Input range;

DC voltage input range only

Scale setting span;

1.0E-15 to 1.0E+15.

Maximum exponential span;

Up to 15 decades

Number of digits of the mantissa;

2 or 3 digits

Alarm setting;

H/L and Delay H/delay L alarm only

Set alarm values using voltage values.

Alarm hysteresis;

Fixed at 0%.

Note:

Math supported on non-log channels with /M1 option

Simulator functions (with /R1 Remote option)

Freeze:

Contact input or Communication command freezes all display functions including clock. Clock resumes correct time on release.

Memory clear:

Contact input or Communication command clears the internal memory and the displayed waveform. Configuration settings are not affected.

Turning ON/OFF the time clock display:

Select ON/OFF at Setup mode.

Bar scale and scale band display functions

Trend bar scale display:

Users can choose a color bar or color pen pointer in the Trend Display scale. Only the first channel specified in the display group settings can be displayed in the scale when color bar is selected.

Scale band display:

In the Trend Display scale and Bar Display, a "normal zone" scale band can be displayed in the specified color.

Banding area;

Inside or outside specified positions.

Setting of banding positions;

0 to 100% of range.

Up to 1% width can be set.

Alarm pointer display function

General functions:

Displays alarm pointers on the scales and bar graphs of the trend window.

Specifications:

Colors of alarm pointers are as follows;

Alarm level	Color
Level 1	Red
Level 2	Orange
Level 3	Orange
Level 4	Red

The display colors will not change even if alarms occur.

Alarm types displayed with alarm marks;

Upper-limit alarm (H)

Lower-limit alarm (L)

Delay upper-limit alarm (T)

Delay lower-limit alarm (t)

Display rate switching functions

General functions:

Two speed time/div is available to switch by key operations and remote input. Secondary setting time/div speed is effective only on real-time monitor screen.

Historical trends show data with the primary time/div setting.

Special condition for DX200 models set to Horizontal Trend Display mode:

With one pen scale, digital OFF, the displayed trend-scale is 19.5 divisions.

With one pen scale, digital ON, the displayed trend-scale is 15 divisions.

With combinations of total channels and maximum math computations configured for some DX200 models, past trend trace data may be less than the full screen 19.5 or 15 divisions as described above. The minimum trend trace data will always be at least 13 divisions of recent trend data once the unit has initially recorded the information. No data is lost in the archived data files. This may be noticed when switching screens or powering off and on the unit.

Media FIFO functions

General functions:

When the removable media becomes full or the number of files in the folder reaches 1000, the oldest file will be deleted and the latest data file will be saved.

Specifications:

DX media;

Functions on ZIP or ATA flash media only. Not supported on FDD.

Effected data files:

Only files in the specified folder will be automatically deleted by the FIFO function.

If the folder name is changed, data files saved before the folder name change will not be deleted.

Note:

No warning will be given even if the remaining capacity on the media reaches less than 10% of total capacity.

Internal switch functions

General functions:

Alarms can activate remote control functions without using alarm relays.

Specifications:

Number of Internal Switches;

30 (S01 to S30) selectable in alarm setting menu

Functions;

Functions that can be assigned to internal switches are as follows.

Function	Menu	FUNC key
Memory start/stop	Memory start/stop	Memory (DX100) Start/Stop(DX200)
Event data trigger	Trigger	Trigger
Alarm ACK	AlarmACK	AlarmACK
Math start/stop	MathStart/Stop	Math
Math reset	MathReset	Math rst
Manual sample	ManualSample	M.sample
Snap shot	SnapShot	Snapshot
Message writing	Message	Message
Screen freeze (Simulation)	Freeze	Freeze
Memory clear (Simulation)	Memory Clear	Clear
Display rate change	Rate Change	Change

Addition of waveform colors

Waveform color: Added Black color

The background of the historical trend window:

Changed to a color that allows recognition of the black color.

DAQSTANDARD viewer:

Dark blue will be used.