	DAQSTATION DX200
1	
	1.1 DX200 1.2 1.3 1.4 1.5 () 1.6 / (,M1) 1.7 (Batch) (,/BT1) 1.8
2	
	2.1 2.2 2.3 2.4 () (/A1~A5) 2.5 FAIL / (, /F1) 2.6 (, /R1) 2.7 VGA .(, /D5) 2.8 (,/TPS4,/TPS8) 2.9 .
3	/ /
	3.1 3.2 ON/OFF 3.3 / 3.4 3.5 () 3.6 3.7 /
4	
	4.1 / 4.2

5	
	5.1 5.2 , 5.3 ON/OFF (DI) 5.4 (Delta) 5.5 5.6 5.7 (Skip) 5.8 / 5.9 A/D , , , , , ()
6] ()
	6.1 / () 6.2
	6.3 6.4 ()
7	
	7.1 (Tag) 7.2 / .() 7.3 () 7.4 () 7.5 () 7.6 7.7 7.8 (,) 7.9 () 7.10 / 7.11 () 7.12 // 7.13 // 7.14 ,
8	
	8.1 8.2 / 8.3 8.4 8.5 8.6 8.7 8.8 8.9 , , , , . 8.10 / () 8.11 / / () 8.12 () 8.13 / (,)

9									
	9.1 9.2 9.3 9.4 9.5 9.6 9.7 9.8		/	/					
10									
	10.1 10.2 10.3 10.4 10.5 10.6 10.7 10.8 10.9 10.10 10.11 10.12 10.13 10.14	(Batch) (Batch) (Batch)	/ / / ((/ (/)	() , /BT1)) (,/F1 /R1, ,	, ()) , /BT1 ,)
11		/	()					
	11.1 11.2 11.3 11.4 11.5 11.6 11.7 TL(11.8 TL(11.9 11.10 11.11 11.12 11.13	DG DG	(/))				
12									
	12.1 12.2								

13	
	13.1 13.2 13.3 13.4
14	
	14.1 14.2 14.3 14.4 (14.5 14.6 7 14.7 14.8

)

1. 2.ASCII 3.

1.1 DX200 에 대하여

DX200



"DX100/DX200

, (IM04L02A01-17)

.

입력부 기능 1.2

측정체널수 / 측정주기

, [5.9]

*DX204	4	125MS 250MS
*DX208	8	125MS 250MS
*DX210	10	1S 2S
*DX220	20	1S 2S
*DX230	30	1S 2S
		•

입력 종류와 연산

, , ,ON/OFF ([][][] ,[]]. ,)

DX200 , [5.1~5.7]

	VOLT	±20mV ~ ±50V								
	тс	R.S.B.K.E.J.T.N.W.L.U								
	RTD	PT100, JPT100, CU10, CU25,								
ON/OFF	DI	: 0% 100% : 2.4V OFF(0) / 2.4V ON (1)								
	Delta	[] , ,2 ([]) , ,								
	sqrt	[] , 2								
	Scale	[][][ON/OFF]								
	Skip	· · ·								
*1 DX200		·								

*2

[][][] - [][][][ON/OFF] - ア [][]][][ON/OFF] - ア , *3 []

[5.1][′]



이동 평균(DX210/DX220/DX230)

가 [5]



L J	∠ L				10.7115	20115
		. 100ms	16.7ms	20ms		
50Hz/60Hz						
		100	Oms		2S	
	[5.9]				

	A/D
DX204 / DX208	16.7ms(60Hz), 20ms(50Hz), (16.7ms/20ms) /P1 24V-DC 20ms()
DX210 / DX220 / DX230	16.7ms(60Hz), 20ms(50Hz), 100ms, (16.7ms/20ms) /P1 24V-DC 20ms()

1.3 표시 상태

표시에 대해서의 공통사항

10.4

10.4 " TFT

(LCD)(480 X 640)





	LCD	(0.33mm)		
	= 30() X 0.33(mm) X 60(min)/	(min)	
/	,1 (,DX210/DX220/DX	(230 가 2s	2)	



*DX204, DX208

*

*

[7.3]

	.[4.3][8.10]										
	가										
	.[7.4][7.5]										
	.[7.13]										
	. [7.13]										
	1.23 3 . .[7.13]										
	() 1.2.3 3 4 .[7.7][7.13]										
	4 ~12 ()										
ON/OFF	/ [4.3]										
	()										
	, .[7.4][7.12]										



*



가 2S 2)

[4.3]



*



.

Unit Unit All and All

-

-2.899 C L/H1

0.243

-2.080 [[m]

-0.278

Bar graph

*

/

, 1 (, DX210/DX220/DX230 가 2S

-2.008

-0.781

-2.000 (H1 -1.231 1-2.800-1 U1

-1.597

2S 2)

Lower limit of span

Scale

	.[7.13]	
가,,)	() (.[7.10]	
.[7.8]		
	. 4 ~ 12 .[7.10]	2

.

.

.

- / /
- [4.4]

*

	Measur	ed/co	computed value The area corresponding to a channel on whice Cursor an alarm is occurring is displayed in red.									
Tag/Channel no. –	tag Ø	1.980	Tag	11	TAG	21	TAG 31	TAG	41	TAG	51 . 854368	
Alarm mark _	tag Ø	2	Tag	12	TAG	22	TAG 32 -0.243737	TAG	42.781465	TAG H 1	52 597271	
	TAG Ø	3 1 1.854	TAG	13 -1.980	TAG	23 1.576	TAG 33 -0.749211	TAG	43	TAG	53 .231324	
	TAG Ø	4 1.597	TAG	14 -1.985	TAG	24 1-841	TAG 34 -1.283628	TAG	44 - 243738	TAG	54 . 781463	
	tag Ø	5 1.231	Tag	15 -1.854	TAG	25 1.980	TAG 35 -1.576828	TAG	45 . 749213	TAG	55 . 278347	
	tag Ø	6 Ø. 781	TAG	16 -1.597	TAG	26 1.985	TAG 36 -1.841888	TAG ₁	46 .283629	TAG -0	56 . 243737	
	tag Ø	7 0.278	TAG	17 -1.231	TAG	27 1.854	TAG 37 -1.980536	TAG	47 .576021	TAG	57 . 749211	
	TAG 0	8 0.243	TAG	18 -0.781	TAG	28 1.597	TAG 38 H -1.985892	TAG	48 .841009	TAG -1	58 . 283628	
	TAG Ø	9 0.749	TAG	19 -0.278	TAG	29 1.231	TAG 39 -1.854368	TAG	49 .980536	TAG	59 . 576020	
	TAG 1	0	TAG	20	TAG	30	TAG 40	TAG	50	TAG	60	

/ 1 (, DX210/DX220/DX230	가 2S	2)
---------------------------	------	----



120



Mark (see section 6.1)

가

The historical trend of the data containing the selected alarm (display data example)







[

]

Number of the message displayed at the bottom of the screen Number of the messages in the internal memory Message Date and time the message was written User name (when using key login function) (806/806) Nessage Tine User Nane **MESSAGE8** Jan. 04.2000 02:24:59 user1 POWER OFF Jan. 04. 2000 02:24:53 user1 Cursor -HESSAGE5 Jan. 84. 2008 82:24:86 user1 **MESSAGE4** Jan.04.2000 02:24:00 user1 Jan. 04.2000 02:21:03 POWER ON user1 Jan. 04.2000 02:20:59 **MESSAGE1** user1

The historical trend of the data containing the selected message (display data example)





Number of data sets in the internal memory/The maximum number of data sets the internal memory can hold





· , , , 가 , , , , . , . , 가 1 , 1 , 1 가 . . [1.6] . , . . [4.5] .

The index number of the report data currently displayed

The number of report data sets in the internal memory

Report type Date and time the report started

Date and time the r

				0		<u> </u>	
Index: 2/2	Kind: Hour	19	Start:	Jan.01.2000	00:10:46	Timeup: Ja	an.01.2000 00:11:06
Channe1	Unit	Sts		Ave	Max	Min	Sum
CH01	V			0.000	0.000	0.000	0.000000E+00
CH02	V			0.000	0.000	0.000	0.00000E+00
CH03	¥.			0,196	0.964	-0.743	3,916000E+00
CH04	V			0.000	0.000	0.000	0.00000E+00
CH05	V			0.000	0.000	0.000	0.00000E+00
CH06	V			0.132	0.186	0.026	2.648000E+00
CH07	V			0.120	0.174	0.012	2.391000E+00
CH08	V			0.110	0.164	0.001	2.202000E+00
CH09	V			0.101	0.155	-0.007	2.029000E+00
CH10	V			0.090	0.144	-0.018	1.793000E+00
CH11	Ŵ			-0.286	-0.282	-0.290	-5.718000E+00
CH12	Ŷ			-0.293	-0.289	-0.297	-5.867000E+00
CH13	V.			-0.301	-8.297	-0.305	-6.029000E+00
CH14	Ŷ			-0.307	-8.304	-0.311	-6.147000E+00
CH15	Ŷ			-0.312	-0.308	-0.315	-6.235000E+00
CH16	Ŷ			-0.315	-0.312	-0.319	-6.304000E+00
CH17	Ŷ			-8.322	-0.318	-0.326	-6.447000E+00
CH18	Ŷ			-0.328	-0.325	-0.332	-6.568000E+00
CH19	Ŷ			-0.333	-0.330	-0.337	-6,669000E+00
CH20	Ý			-0.341	-0.338	-0.344	-6.821000E+00
CH21	Ŷ			-0.325	-0.322	-0.329	-6.505000E+00
CH22	Ŷ			-0.332	-0.329	-0.336	-6,645000E+00
CH23	¥.			-0.339	-8.336	-0.343	-6.771000E+00
CH24	Ŷ			-0.347	-0.344	-0.351	-6,932000E+00
CH25	Ŷ			-0.351	-0.349	-0.356	-7.025000E+00
CH26	Ŷ			-8.355	-8.352	-8.359	-7.097000E+00
CH27	Ŷ			-0.362	-0.359	-0.366	-7.232000E+00
CH28	Ŷ			-0.368	-0.365	-0.372	-7.351000E+00
CH29	Ŷ			-9.372	-9.379	-9.377	-7.448000F+00
CH30	Ŷ			-0.379	-0.376	-0.384	-7.588000E+00
	17780			1.000	2001/1000	8.000 March 1000	



4 . . / / / / / / , , , , ,

4 , 4 . 4

MIX	(1)/ (1)/ (1)/
ALL TREND	(1 ~ 4)
ALL DIGITAL	(1 ~ 4)
ALL BAR	(1 ~ 4)

Example of a "MIX" Display







Trip line Date and time at the display reference position

/

+

+

Display reference position (the right end of the display range, the position of the newest data being displayed) Date and time at the display reference position





*

*

,



,



Parameter selections (selected using the soft keys)

LCD화면의 표시상태의 실정

LCD

			가 .
			. [7.13] .
LCD	LCD	4	. [2]
			[7.14] .
			, LCD
			7ŀ
			, [7.14] .

.

졷







경보(알람)기능



1.5



Delay upper limit alarm example ("T" is the specified delay period)



Upper limit on rate-of-change alarm



.

=

Х





Model	Channel	
DX204	Channels 31 to 38 (8 channels)	_
DX208	Channels 31 to 38 (8 channels)	
DX210	Channels 31 to 60 (30 channels)	
DX220	Channels 31 to 60 (30 channels)	
DX230	Channels 31 to 60 (30 channels)	

인산의 종류

	7+(+), (-), (X), (/)
**	
SQR	·
ABS	
LOG	
EXP	е .
	Determines <, \leq , >, \geq , =, \neq of two elements and outputs "0" or "1."
	2 AND(), OR(), XOR() NOT() "0","1" .
	(SUM) - (P-P) , (MAX), (MIN), . TLOG [11.7]
	, -
	1 , 64

		•	
(K01~K30)			
		=> [DX100/DX200]
(C01~C30)	(IM04L02A01-17)		_
		(0 1) .	
(D01~D08)			



(/M1) . , , (1 11), (1 1) (1 1) , , . (1 , 1) , , ,

, , [T1,4] ASCII アト .([2 ASCII]) [11.11] .

* , 1 , 2 , 00 00 .

	/	/		/	/	
1	30					
	,	,	,			
	40					
	ASCII					

1.7 배치(Batch)기능 (옵션,/BT1)

(Batch)

, , 가 / , (Batch) , , 가

() , .

측정/연산 데이티(표시 데이티,이벤트 데이티) 로의 배치(Batch)정보



•

.

키 로그인 기능에 의한 조작자의 식별

, (Batch) [10.5] [10.6] . 7ŀ

- ID 가 ,



(Batch) 가, , 1~3 , [7.4] .



가 가 가 (Batch) 가 .([4.2]) .([8.5][8.6]) (Batch) / + +STOP ,

꼬이 데이터의 활약 브

, , . (Batch) , (Batch) .([4.6]) + +

, .([4.5][9.5][9.4])

1.8 기타 기능

\ \81	<u>le fa</u>	7					
	(1		[10.2],		[10.1	[ACK]가] .	
				=>[8.11])		(
ACK		/	([]	
		/	=>[6.4]	/M1)	=>[11.3]		
			.(0		(/M1))=>[7.4]
			1	=>[8.13]		
1~	8	1~8			=>[7.4]		
						=>[9.6]	
	ST/ STC ME US DIS [[[[ART DP NU ER DP/ENTER]]]]]					
				, Zip		 Zip	



FAIL/메모리END 출력릴레이(읍셴,/Fl)






8

+

, [10.9] , 가

/	/ =>[8.5][8.6]
	([] , [] =>[8.11]
ACK	/ ([] =>[6.4])
	/ ((M1))
	(0 , (/M1) ,)
	1
1~3	,
1~8	1~8 .
	· ·



본기기의 취급상 주의

- *LCD , , .
- * .
- * OFF .
- * 7¦ , A/S .

기억미디어 취급상 주의

- * .
- * 7⁺ . (10) (30) .
- * (40) ([8.4]).

•

· 가 .

•

- * ON/OFF
- * 가 가 가 .

*ATA

*

- - , Zip 가 .

2.2 본기기를 설치 한다

계장판넬

+

,

+ , .

(, 0~30°[,] 가.)

>> Note

(40), LCD LCD [7.4]

.

1

+

, , , , 가 가 , , , 가

+ ア . ア

+ LCD , .

가

.



.



[14.8

]

2.3 측정입력 신호선을 배선한다





- + OFF .[5.9]
- +
- + ON/OFF
- + .

.

.

가

경고

3	OFF			
				
*	가	. 가	가	
2VDC 6 ~ 50VDC	: ±10VDC : ±60VDC		250VAC rms(50/	(60Hz)

배선방법

- 1. OFF , 2. .
- 3. , .

Note

+ +	: 0.14mm ~ 1.5mm : 5mm	:0.14mm² ~ 1.0mm²		
	0.3mm		가	

DX204/DX208

Input Terminal Position



Terminal Arrangement

Standard Input Terminals

Clamped Input Terminals (/H2)





CH4 CH2

CH3 CH1



DC Voltage and DI Input







Resistance Temperature Detector Input



DC Current Input



Input Terminal Position



Terminal Arrangement



Wiring Diagram

DC Voltage and DI Input



Thermocouple Input



Resistance Temperature Detector Input

DC Current Input

NOTE: For a 4 to 20 mA input, use a shunt resistor of 250 $\Omega \pm 0.1\%$.

경보(알람)출력 신호선을 배선한다(옵션,/A1~A5) 2.4

OFF가 + 30VAC/60VDC + 30VAC/60VDC , 2300VAC) , 2 /350VAC) (.

배신방법						
1.	OFF			,		
2.	(2-10, 2-11)		() /F1	
3.						
+						

.

• /AR1, /AR1/F1

(가

			02	01	
Option Terminal 1	888	BB BB	BB BB	B BBB B BBB B BBB	NC C NO

• /AR2, /AR2/F1

					02	01		
Option Terminal 1	<u>888</u>	B B B	B B B B	B B B	999	B B B C C C C C C C C C C C C C C C C C	999 999 999 999 999 999 999 999 999 99	NC C NO
			04	03				

• /A3, /A3/R1

	06	05	02	01	
Option Terminal 1	999	BB BB	E E E	B BBB BBBB	NC C NO
		04	03	- COOQ	

• /A3/F1, /A3/R1/F1

Option Terminal 1 (No alarm terminals)	808	88 88	88 88	8888 8888 8888	NC C NO

	16	15	12	11	
Option Terminal 2	999	BB BB	BB BB	Ð	NC C NO
		14	13		r

• /A4, /A4/R1

	06	05	02	01	_
Option Terminal 1	<u> </u>	BB BB	BB BB	BBB B BB B BBB B BBB B BBBB B BBB B BBB B BBBB B BBBB B BBBB B BBBBB B BBBBB B BBBBB B BBBBB B BBBBBB B BBBBBBBBB B BBBBBBBB	NC C NO
	-	04	03		-
	16	15	12	11	
					-
	E	ÐÐ	E		NC
Option Terminal 2	8	BB	B B		NC C
Option Terminal 2		BB BB	BB BB		NC C NO

+

• /A4/F1, /A4/R1/F1

Option Terminal 1 (No alarm terminals)	(9) (9) (9) (9) (9) (9) (9) (9) (9) (9)	BB BB	B B B B B B B B B B B B B B B B B B B	() () () () () () () () () ()
	16	15	12	11
Option Terminal 2		BB BB	BB BB	B B B B NO
	26	14 25	13 22	21
Option Terminal 3	889	E E E E E	BB BB	B B B B C NO
		24	23	

• /A5, /A5/R1

			06	05	02	01		
	Option	Terminal 1	<u>(6)</u>	88 88	88 88	B B B B	図 日 日 日 日 日 日 日 日 日 日 日 日 日	
				04	03			
	Option	Terminal 2	16 19	15 EE EE	12 IB IB IB IB IB IB	11 10 10 10 10 10 10 10 10 10 10 10 10 1		
				14	13			
			26	25	22	21		
	Option	Terminal 3	<u>()</u>	BB BB	BB BB	B B		
				24	23			
	Option	Terminal 4	36 1919	35 EE EE EE 34	32 80 80 80 80 33	31 B B		
접점	<u>43/</u>	2 2 2	250VA 250VE 50VAC	\C(50/60)C, 0.1A C(50/60⊢	(Hz), 3A (Iz),) (가) -)
			/				[6.4]	

FAIL/메모리 앤드 출력 신호선을 배선한다.(옵션,/F1 2.5

OFF가 + . 30VAC/60VDC + 30VAC/60VDC , 2300VAC) , 2 /350VAC) (. ,

리모트 제어신호선을 배선한다(옵션,/R 2.6

VGA 출력단자에 모니터를 접속한다(옵션,/D5)

RGB VGA

Pin Assignment

_				Pin No.	Signal Name		Specification
				1	1 Red		0.7 Vp-p
				2	Green		0.7 Vp-p
	5		1	3	Blue		0.7 Vp-p
	, j			4	_		
			$ \rightarrow $	5	_		
			5))	6			
1	o <u>↓↓ ŏ</u> ŏĭ	о́о	ĭ <u>0 </u>	7			
	11000	FO (5 / /	8			
			$\left - \right\rangle$	9	_		
				10	GND		
	15	1	1	11	_		
	B 0 1 45			12	_		
	D-Sub 15-p	in rece	eptacle	13	Horizontal synchr	onous	Approx. 31.5 kHz,
					signal		TTL negative 📋
				14	Vertical synchron	ous	Approx. 60 Hz,
					signal		TTL negative 📋
_				15	—		
	모니티와의 접속!	방법					
_	1.		OFF				
	2.	.	RGB				
	3.	ON			•		
	>> Note						
	*	ON	VIDEO OUT		VGA 가		
	*		가		가 가		
	*				71		

.

가

전송기 전원 출력선을 배선한다(옵션,/TPS4,/TPS8) 2.8

• /TPS4

Option Terminal 4

• /TPS8

Option Terminal 3 -

B	Ø	Ð	Ø				
B	۲	3	⊛				

Option Terminal 4

\sim						_	
B	0	Ð	9				
G	⊛	€	⊛				

Note

2.9 전원을 접속한다.

/P1	/P1
100~240VAC	24V DC/AC
90~132, 180~264VAC	21.6V~26.4V DC/AC
50/60Hz	50/60Hz(AC)
50/60Hz±2%	50/60Hz±2%(AC)
75VA(100V), 106VA(240V)	54VA(DC), 76VA(AC)

데스크탑 타입의 경우

/P1 *

,

가

경고

*		
*	가 OFF	,
*	3 -2 (フト)
*		가
3	. 2	, 3 -2
*		
	76 .	
,		

,	
	100~240VAC
	90~132, 180~264VAC
	50/60Hz
	50/60Hz + 2%
	75VA(100V), 106VA(240V)

Note

,,					
132	2~180VAC	,	가	가	
+ 1.	가 OFF				

1. 2.

3.				
	3	71)	•	2
3 -2	(7 F)	,	
				•

•

/P1(24V)

3.1 각부의 명칭과 기능

Front Panel

- , 2. . 가 3.
- , DISP/ENTER 4.

DISP/ENTER

ON/OFF

(/M1)

,

7. STOP

[3.4]

/

- 9. MENU
- 10. USER
- 11. FUNC

,

12.

FUNC

13. /

- 2

스위치를 ON/OFF한다 3.2 전 원

,

OFF .

3.3 외부기억미디어를 삽입한다/꺼낸다

Note

		가	
+	ΔΤΔ		

, А	IA	UN,OFF	•
Zip	OFF		

1. ON ,

Note

*			가		
*				, []
	가	•			

Insert a pin.

	: 2HD, 144Mbit			•
Zip	: FDISK 1 ()	
ATA	: FDISK 1	()

해설

운용모드 3.4

		가
		* /
	ON .	*
		*
		*
	/	
()	FUNC 3	
	, () .	

기능과 조작 조장모드의

+

() / / / / /4 / / [14 DISP/ENTER] +FUNC 가, [NEXT] FUNC

.

, . 가 . 가 FUNC ESC , .

					200		
Batch	AlarnACi	(He	essage	Manual sample	Keylock	Losout	Next 1/3
Trisser	Math START	r	Math reset	Snapshot	4Pane1	Los	
FTP test	E-Mail START	E	-Mail test	Modbus master	Save Display	Sa U Eve	ve Fieldbus
			()	
(Batch) ACK	10.11 6.1,6.4 7.4 8.13 10.3 10.5 8.6,8.11		/) 1~8	(1 (,(/BT1 (, .(,))))	[]
/ ACK FTP 4 /	11.3 11.3 11.3 9.6 10.7 7.15 8.7		FTP 4	/ (0 /	(/M1) (.(4) (/M1))	,) .((/M1)) .()

		(
/	*1		/			
	*1	1,2				
	*1	Modbus	,			
	*2		,		•	
*1 [DX100/DX200](IM04L02A01-1	7)		

*2 [DX100/DX200

](IM04L02A01-18)

·

*START/STOP

/ [8.5, 8.6] START/STOP START/STOP 12] -(/M1) [11.3][11.12]

*USER

- [10.1] • * / [10.3],[10.5] .
- [7.15]. - 4 •

÷

DISP/ENTER , [3.5 (, /)] • [9.1]

3.5 기능설정(설정모드와 기본설정 모드)

실정모드와 기본실정모드

+

,

,

- *
 - -
 - -
 - -
 - -
- *
- -
 - -
 - -
 - TLOG

실정내용

+ (5.9) (5.1~5.7) * (5.9) * Off/Up/Down * (5.9) / *[] * (5.9) A/D /Off (DX204/DX208)(5.8) /Off (DX210/DX220/DX230)(5.8)

+ * (6.4) * (6.2) / (6.2) * On/Off(6.2))(6.4) ((6.2))(6.4) ((6.3) * * *AND)(6.4) / * (* /

. ()

	*	(7.6)					
	*	(7.6)					
	*	(7.13)					
/	*	(7.1)		*	/	NO	(7.2)
	*	(7.3)		*			(8.1)
	*	(7.5)		(/	
	*	(7.7))	
	*	(7.13)		*			/
	*	(7.8) ()			(7.12)	
	*	(/ / 2)(7.13)					
	*	(7.13)					
	*	(7.13)					
	*	(7	7.13)				
	*	(7.10)()				
	*	ON/OFF	(7.10)				
	*	(7.9)					
	*	(7.11)					
	*	(11.8))				
	*	(/)(7.13)					
	*	(7.10)()				
	*	(7.10)	-				
LCD	*	()7.13					
	*	(7.14)					
	*	(7.14)					

+

/				
(8.11)		* (/ (/)	
		()	
/	*	()
(8.10)	*	()()
*		(8.9) *		(8.11)
*	(8.9)	()
*		(8.9) *		
*		(8.8) ()	(8.12)
	*			(10.8)

(

)()

(11.4)) *					
	*					
	*					
(11.6)	*	(K01~K30)				
	*	(11.5)				
	*	(11.5)				
	*	ON/OFF(11.5)				
	*	(11.5)				
	*	(6.3)				
/	*	(7.1)				
	*	(7.8)	*			(/
	*	(7.10)				`)(8,10)
	*	ON/OFF	(7.10))(0112)
	*	(7.9)	`	,		
	*	(7.11)				
	*	(7.8)()			
	*	(7.10)				
	*	(7.10)				
TLOG	*	NO,	*	(/)(11.9)
		(11.8)	*	(11.9)		
			*			(11.9)
			*		(11.9)	
				ON/OFF(1	1.9)	
			*	/	ON	I/OFF(11.9)
	*0N/	'OFF				
(11.1)	0) *					
,	*					

+

+

(3.7)	
(10.2) *	
(10.4)	* /
	*
	* /
(10.6)	* /
	* ON/OFF
	* IP /
	*
	* ID
	*
	* 가/가

Next 2/2

#7 #8 #9

[화면설정]메뉴

Display #1		
#1		
	Group set.Trip line	
#2	Color	
#3	Zone, Graph, Partial	
#4	View.Direction.LCD	
#5	Math(Color)	
#6	Math(Zone,Graph,Partial)	
#1 #	2 #3 #4 #5 #6	
「파일조작	. 데이터클리어]메뉴	
ti1	Load.Llear data	
#2		
#2	Load Settings	
#3	save data	
#4	Load display data	
#5	Load event data	
#6	File list	
#7	Delete	
#8	Fornat	
#9	Clear data	
#1	#2 #3 #4 #5 #6 Next 1/2	
#1		5.1~5.7
		"
		"
		"
		"
1		"
1		
1	1	6.0
		0.2
		0.Z "
	ON/OFF	0.2 "
	ON/OFF	0.2 " "
#2	ON/OFF	0.2 " " 7 1
#2	ON/OFF	0.2 " " 7.1
#2	ON/OFF /OFF(DX204/DX208)	6.2 " " 7.1 5.8
#2	ON/OFF /OFF(DX204/DX208) /OFF(DX210/DX220/DX230)	6.2 " 7.1 5.8 "
#2	ON/OFF /OFF(DX204/DX208) /OFF(DX210/DX220/DX230)	6.2 " 7.1 5.8 "
#2	ON/OFF /OFF(DX204/DX208) /OFF(DX210/DX220/DX230)	6.2 " 7.1 5.8 " 6.3
#2 #3	ON/OFF /OFF(DX204/DX208) /OFF(DX210/DX220/DX230) /	6.2 " 7.1 5.8 " 6.3
#2 #3	ON/OFF /OFF(DX204/DX208) /OFF(DX210/DX220/DX230) /	6.2 " 7.1 5.8 " 6.3 7.3
#2 #3	ON/OFF /OFF(DX204/DX208) /OFF(DX210/DX220/DX230) /	6.2 " " 7.1 5.8 " 6.3 7.3 8.8 7.5
#2 #3	ON/OFF /OFF(DX204/DX208) /OFF(DX210/DX220/DX230) /	6.2 " " 7.1 5.8 " 6.3 7.3 8.8 7.5
#2 #3	ON/OFF /OFF(DX204/DX208) /OFF(DX210/DX220/DX230) /	6.2 " " 7.1 5.8 " 6.3 7.3 8.8 7.5 8.9
#2	ON/OFF /OFF(DX204/DX208) /OFF(DX210/DX220/DX230) /	6.2 " " 7.1 5.8 " 6.3 7.3 8.8 7.5 8.9 "
#2	ON/OFF /OFF(DX204/DX208) /OFF(DX210/DX220/DX230) /	6.2 " " 7.1 5.8 " 6.3 7.3 8.8 7.5 8.9 " "

#4- #1	1			7.6	
				"	
		,		7.7	
#4- #2	2			7.8	
	-				
#4- #3	3			7.9	
			/	7.10	
				"	
				7 44	
				7.11 "	
#4- #4	1			7.13	
				"	
		()	ű	
				"	
				"	
				"	
				"	
	LCD			"	
		LCD		7.14	
		LCD	ON/OFF	"	
		LCD		"	
#4- #5	5				
	·				
#4- #6	6			7.9	
			/	7.10	
				"	
			ON/OFF	"	
			ON/OFF	7.11	
				ű	
#5	3				
μ <u>ε</u> μ,	4			0.1	
#5-# #5 #3	ן ר			9.1	
#0-#2 #E #2	2			ອ.1 ດູງ	
#0-#0	3		1	9.Z	
#5-#- #5-#4	-		1	9.0	
#5- #3			/	9.4 0.5	
#5- #0	7			9.0	
#5-#1 #F #0				9.0	
#5-#0	3			9.0	
#5- #3	9			9.1	
#6		/		3.7	
#7	/			11.4	
	,		,	11.5	
				11.5	
				11 5	
				11.5	
		(K01~ K	30)	11.6	
				11.0	
#8				7.1	
	TLOG	TLOG	NO,	11.8	
			ON/OFF	11.10	
			,	11.10	
				6.3	
			(10.12) (10.12)	(10.12)	
#9	(Batch)			· · · · · · · · · · · · · · · · · · ·	
#9	(Batch)	(10	(10.12) (10.12)	(10.12)	
#5- #4 #5- #6 #5- #6 #5- #7 #5- #8 #5- #8	4 5 7 3 9		/ /	9.3 9.4 9.5 9.5 9.5 9.7	
#5-#6	6			9.5	
#5- #7	7			9.5	
#5- #8	3			9.5	
#5_ #0				9.7	
#5-#8	9			9.7	
#6		/		3.7	
	,				
#7	/		3	11.4	
				11.5	
				11.5	
				11.5	
			ON/OFF	11.5	
				11.5	
		(K01~ K	30)	11.6	
		(KU1~ K	3U)	11.6	
		(/		
				_	
#8				7,1	
#8				7.1	
-					
i i			NO	44 0	
l i	ILOG	TLOG	NO.	11.8	
l i	1200	1200	NO,	11.0	
			011/05-		
í –				11 10	
			ON/OFF	11.10	
í –				11.10	
i					
				11.10	
1			,		
				6.2	
				0.5	
	$(\mathbf{D} - (\mathbf{r} + \mathbf{k}))$		(10.12) (10.12)	(10.12)	
#9	(Batch)			1.1.2.1.2.1	
#9	(Batch)		(10.12)	()	
#9	(Batch)	(10	(10.12) (10.12)	(10.12)	
#9	(Batch)	(10.1	12) (10.12)	(10.12)	
#9	(Batch)	(10.	(10.12) 12) (10.12)	(10.12)	
기본설정모!	드 메뉴 확면과 실정항목이 대응				
----------------	---	---			
Basic setti	ing node				
#1	Alarn. A/D. Tenperature				
#2	Memory, Memory and trend, Memory tineup				
#3	Keylock, Key login				
#4	Save/Load.Initialize	— To [Save/Load, Initialize]			
#5	Option	menu below			
#6	Connunication	- See the DX100/DX200			
Next	#7 Web.E-Mail End End #8 AUX.Tine zone	Communication Interface User's Manual.			
#1 #2	#3 #4 <mark>#5# #5 #6 N</mark> ext 1/2				
Basic setti	ing mode				
#7	WebsE-Mail	- See the DX100/DX200			
#8	AUX.Tine zone	Communication Interface User's Manual			
End	End				
Next	11 Alarn, A/D, Tenperature				
	#2 Henory, Henory and trend, Hemory timeup #3 Keylock, Key login				
	#4 Save/Load.Initialize				
	#5 Option				
#7 #8	End Next 2/2				
Save/Load, Ini	itialize	d.			
Save/Loa	d.Initialize				
#1	Save settings				
#2	Load settings				
#3	Delete				
#4	Fornat				
#5	Initialize				

#1				6.4
			AND	"
			/	"
			/	"
				"
			ON/OFF	"
	A/D	A/D		5.9
				"
			OFF/UP/DOWN	"
			(/ ,) 5.9

#2			8.11
			"
			"
		(/ /)	"
		()	"
		()	"
			"
	•	,	
	&		8.10
		1	8.10
			8.12
#3		/	10.4
			10.4
		/	10.4
		/	10.6
		ON/OFF	10.6
		ID /	10.6
		: ID/	10.6
		가/ 가	10.6
#4	,		
#4- #1			9.1
#4- #2			9.1
#4- #3			9.5
#4- #4			9.5
#4- #5		(/ ,	9.8
)	
#5			10.9
			11.13
			11.13
			11.13
			11.13
	(TLOG)	(/)	11.9
	. ,	· · · · ·	11.9
			11.9
		ON/OFF	11.9
		/ ON/OFF	11.9

#6									*
#6- #1		/							*
#6- #2	FTP								*
#6- #3		(,)					*
#6- #4		,							*
#7	,								
#7- #1									*
#7- #2									*
#7- #3									*
#7- #4									*
#7- #5									*
#7- #6									*
#8					/				7.2
									10.8
									10.10
							/		7.1
						/	(/BT,)	10.13
									10.14
									3.6

3.6 공통 키 조작



구도배상 : 02)-66/9-6111







Setting selections (selected using the soft keys)

- + 1. () .
- 가 2. , ESC . [] DISP/ENTER
- +
- 1.DISP/ENTER () , ,
- + 1.MENU
 - ESC
- + 1. MENU ESC 가 , .



/ ,



Window for entering numbers

.

.

- * : * / :
- .
- *[] :



,





Window for entering charcters

/

1 ABC	2DEF	З сні
(<i>4</i> _{JKL}	5 MNO	6 POR
7 sn	8 wx	9 yz
(<u>-+/*</u>)	0 70°	<u>[_0]</u>

minus sign

decimal point

Key	Pressed once	Twice	Three times	Four times
1 АВС	A(a)	B(b)	C(c)	
2DEF	D(d)	E(e)	F(f)	
Зан	G(g)	H(h)	l(i)	
(4лкі	J(j)	K(k)	L(I)	
5 MNO	M(m)	N(n)	O(0)	
6 POR	P(p)	Q(q)	R(r)	
(7 sти)	S(s)	T(t)	U(u)	
8 wx	V(v)	W(w)	X(x)	
9 _{YZ}	Y(y)	Z(z)		
-+/#	+	/	*	
0 20	%	#	0	@
$(\underline{\cdot}_{0})$		()	

·

@ / .

71	,	,	71		71	
~1	・ , フŀ		~1	•	21	,
	•					

조작

- +
- 1.
 ,[]
 .

 []
 7
 .

 2.
 ,[]
 .

			and the second se
nput	Clear	Сорч	Paste

- **+** 1. ,[].

3.7 날짜/시각을 설정한다





.

•

.

.

DISP/ENTER , ESC .



four arrow keys



가				가
	,	6	•	

- *
- *
- *

100		%(%)	
100	~100	日(1)		
60	~100	(1)		
60		(1)		
n/16					

•

•

•					
	([8.2,])	16	[16]	
	([0:2]])	10	[10]	

n Note

NOLE							
	가	,					
*					ſ	171	
*			가 16		L	J '	-

.

6.

- + 가[]([8.2])
- *

*

	•	
	•	

100		%(%)
100	~100	日(1)	
60	~100	(1)	
60		(1)	

n/16

([8.2]) 16 . [16] .n .

Note

	가	,					
*					ſ	1가	
*					-	•	



.

[6.1]

4.3 트랜드, 디지털, 바그래프 표시를 사용한다

조작 흐름도

트랜드, 디지털, 바그래프



5.DISP/ENTER

,













Waveforms for all channels that are Data from selected group registered to display the trend are displayed

+

* 1.DISP/ENTER 2. 3	, 가 ,	
4.DISP/ENRER		ESC
* 1. , , 4, 1 2.	, 1	, 1, 2, 3,
* , ,	/ . 1, 2, 3, 4, 1	가

1. , , DISP/ENTER , 가 2. , 가

3. , [ON]* . [OFF]* * 가 가 , .

٨~	TREND	GROUP 1
輵	DIGITAL >	GROUP 2 GROUP 3
Ш	BAR 🔸	ALL CHANNEL
茻	OVERVIEW	DIGITAL OFF
	TNEOD_	AUTO SCROLL ON

₩ DIGITAL →	GROUP 1
<u>∎∎</u> Bar →	GROUP 3
# OVERVIEN	ALTO SCROLL ON

<mark>III</mark> BAR →	GROUP 1
🔱 OVERVIEW	GROUP 2 GROUP 3
ER INFOR-	AUTO SCROLL ON

4.DISP/ENTER



M TREND →	GROUP 1
= 調査 DiGITAL →	GROUP 2 GROUP 3
<u>III</u> BAR →	Group 4 All Channel
🗱 OVERVIEW	DIGITAL OFF

4.DISP/ENTER , 가 / .

,



[8.5],[8.6].

Note

*DX210/DX220/DX230		(/M1)		,		[]
*	가 ,	,	·		,	가	,
* ,				가			

+ / , , ,

가,

.

.

Assigned to Groups*¹	Trend Display/Data Storage Specification*2	Numerical Display ^{∗3} Bar Graph	Trend's Wav Group	eform Display All Channels	Data Acquisition to the Internal Memory
Yes	Yes	Display	Display	Display	Yes
Yes	No	Display	Don't display	Don't display	No
No	Yes	Don't display	Don't display	Display	Yes
No	No	Don't display	Don't display	Don't display	No
*1. 2 *2. 2 *3.	· / , ,	가 가 , ,	가	가 . ·	
* ,	, [7.3 [7.6]	. ()]	

,

+

,	-
	Н
	L
	h
	I
	R
	r
	т
	t

+

가 7 . 가, , , ,

[6.2]

4.4 오버뷰 표시를 사용한다.



5.DISP/ENTER

,

가

오버뷰 표시

알람이 발생하고 있는 채널의 발생하고 있는 알람의 종류 연역은 적색으로 표시 => [6 1적]										
Ē										
즉정/연산지 커서(화살표키로 이동할수 있습니다.)								않은 채널의		
					l		00	영역은 녹색	으로 표시 =	=> [6.1절]
	TAG	Ø1 1.980	TAG	11 -1.576	TAG	21 Ø. 749	TAG_31 L	TAG 41 -1.231325	TAG 51 1.854368	-태그/채널 =>[7.1.7.2절]
	TAG	02 1.985	TAG	12 -1.841	TAG	1.203	TAG 32 -0.243737	TAG 42 -0.781465	TAG 52	, [, ,,
	TAG	03	TAG	13	TAG	23	TAG 33	TAG 43	TAG 53	
	TAG	04 1, 597	TAG	14	TAG	24	TAG 34	TAG 44	TAG 54	
	Ţag	05 1,231	TAG	15	TAG	25 1.980	TAG 35 -1.576020	TAG 45 8, 749213	TAG 55 0.278347	
	TAG	Ø6 8. 781	TAG	16 -1.597	tag	26 1.985	TAG 36 -1-841908	TAG 46	TAG 56 -0-243737	
	TAG	Ø7 0.278	TAG	17 -1.231	TAG	27 1.854	TAG 37 -1.980536	TAG 47 1.576821	TAG 57 -0.749211	
	TAG	08 -0.243	TAG	18 -0.781	TAG	28 1.597	TAG 38 H -1.985892	TAG 48	TAG 58 -1.203628	
	TAG	09 -0.749	TAG	19 -0.278	TAG	29 1.231	TAG 39 -1.854368	TAG 49 1.980536	TAG 59 -1-576828	
	TAG	10	TAG	20 0.243	TAG	30 0.781	TAG 40	TAG 50 H 1.985092	TAG 60 -1.841008	

정보표시(알람써머리/메세지써머리/메모리써머리)



5.DISP/ENTER

,

4.5

ESC







레포트 데이티(읍션,/M1)

Date and time thet report was created

The index number of the report data currently displayed

The number of report data sets in the internal memory

Report type Date and time the report started

Index: 2/2	Kind: Hour	19	Start:	Jan. 01 . 200	30 00:10:46	Timeup: Ja	n.01.2000 08:11:05
Channe 1	Unit	Sta		Ave	Max	Min	Sun
CH81	V			0.000	0.000	0,000	0.000000E+00
CH82	V			8,000	0,000	0.000	0.00000E+00
CH83	V			0.195	0,964	-0.743	3.916000E+00
CH84	V			6.000	0,000	0.000	0.00000E+00
CH85	V			6.000	0,000	0.000	0.00000E+00
CH85	V			0.132	0.186	0,825	2.648888E+88
CH87	V			0.120	0.174	0.012	2.391000E+00
CHBB	V			0.110	0.164	0.001	2.202000E+00
CH89	Ŵ			0.101	0.155	-0.007	2.829000E+00
CH18	Ŷ			6,699	0.144	-0.018	1.793000E+00
CH11	Ŵ.			-0.286	-0.282	-0.298	-5.718888E+88
CH12	ý.			-0.233	-0.289	-0.297	-5.867000E+00
CH13	Ń			-0.301	-0.297	-0.385	-6.029000E+00
CH14	V			-8.387	-0.304	-0.311	-6.147000E+00
CH15	Ŷ			-0.312	-0.388	-0.315	-6.235000E+00
CH15	Ŵ			-0.315	-0.312	-0.319	-6.304000E+00
CH17	Ŵ			-8.322	-0.318	-0.325	-6.447939E+88
CH1B	Ŷ			-0.328	-0.325	-0.332	-6.568888E+88
CH19	Ń.			-0.333	-0.330	-0.337	-6.66900E+00
CH28	Ŷ			-0.341	-0.338	-0.344	-6.821000E+00
CH21	Ń			-8.325	-0.322	-0.329	-6.505000E+00
CH22	Ń			-0.332	-0.329	-0.335	-6.645000E+00
CH23	Ŷ			-0.339	-0.335	-0.343	-6.771000E+00
CH24	Ŵ			-8.347	-0.344	-0.351	-6.932000E+00
CH25	V			-0.351	-0.349	-0.355	-7.825000E+00
CH25	Ń			-0.355	-0.352	-0.359	-7.097000E+00
CH27	V.			-0.362	-0.359	-0.365	-7.232000E+00
CH2B	Ú.			-0.368	-0.365	-0.372	-7.351000E+00
CH29	V			-0.372	-0.370	-0.377	-7.448000E+00
CH38	V			-8.379	-0.376	-0.384	-7.588888E+88





,

4.DISP/ENTER

가 ESC



	,		가		
		가			
*	•	DISP/ENTER		,	







Display reference position



,

+ 1.DISP/ENTER 2. 3. , [/	, 가 가 ON]	
Arr Trend History	•	GROUP 1 GROUP 2 GROUP 3 GROUP 4 ZOOM + ZOOM - ALL CHANNEL INFORMATION ON	

4.DISP/ENTER

File Name (Data Kind): Serial No.	Memory (DISP) 129636847
Start Tine :	Jan. 84. 2008 82:13:22
End Time :	Jan. 04. 2000 02:13:38
End User Name :	user1

, . .

.

/

,

,

(,/B1)

File Name (Data Kind)	: Memory (DISP)
Serial No.	: 12V636847
Application Name	: AP
Supervisor Name	: SUPERVISOR
Nanaser Name	: Manager
Batch Nane	: SAMPLE-0014
Start Tine	: Jan.04.2000 02:09:54
Start User Nane	: user1
End Time	: Jan.04.2000 02:11:22
End User Name	: user1

5.

, DISP/ENTER





Displays the screen name or group name

 Different screens can be assigned to each area (quadrant).

The title section of the selected quadrant displayed in dark blue.
Note

*[4]				(),	,	,	,
*[4 * *]	, /	3	,		•				
*		/	,		,					

+	(1)	
1.DISP/ENTER	, [4]		가

- 1.DISP/ENT 2. 가 • (가 3.DISP/ENTER 가
- ;] [4.
 - . 가 .([]가 .)

HATION ·	ALARM SUMMARY
EXPAND	message sunnary
	Expand

5.DISP/ENTER • , ESC

)

5.1 측정채널에 관한 설정

+







, DISP/ENTER . ESC [YES] DISP/ENTER .

+ 가 ,	가		
모드	렌지	측정가능범위	
Volt	20 mV 60 mV 200 mV 2 V 6 V 20 V 50 V	-20.00 to 20.00 mV -60.00 to 60.00 mV -200.0 to 200.0 mV -2.000 to 2.000 V -6.000 to 6.000 V -20.00 to 20.00 V -50.00 to 50.00 V	

_	

, 1~5V .		4~20mA	250	
품명	형명			저항치
Shunt resistors (for screw terminals)	4159 20 4159 21 4159 22			250 Ω ±0.1% 100 Ω ±0.1% 10 Ω ±0.1%
Shunt resistors (for clamped terminals)	4389 20 4389 21 4389 22			250 Ω ±0.1% 100 Ω ±0.1% 10 Ω ±0.1%

열전대입력,측온저항체입력을 설정 5.2

)

,



4.	,			
[] 가	/ ` => [DISP/ENTER](3-21)	
	IOLE			
			가	
+				
•	[]	DISP/EI DIS	NTER . P/ENTER .	ESC .
+	가			
	,	, 가		
모드	렌지	측정가능 범위		비고
тс	R S B K E J T N W L U	0.0 to 1760.0°C 0.0 to 1760.0°C 0.0 to 1820.0°C -200.0 to 1370.0°C -200.0 to 800.0°C -200.0 to 1100.0°C -200.0 to 400.0°C 0.0 to 1300.0°C 0.0 to 2315.0°C -200.0 to 900.0°C -200.0 to 400.0°C	32 to 3200°F 32 to 3200°F 32 to 3308°F 328 to 2498°F 328.0 to 1472.0°F 328.0 to 2012.0°F 328.0 to 752.0°F 32 to 2372°F 32 to 4199°F 328.0 to 1652.0°F 328.0 to 752.0°F	IEC584, DIN IEC584, JIS C1602-1995 IEC584, DIN IEC584, JIS C1602-1995 V-5% Re/W-26% Re (Hoskins Mfg.Co.), ASTM E988 Fe-CuNi, DIN 43710 Cu-CuNi, DIN 43710
RTD	Pt100 JPt100 CU1 CU2 CU3 CU3 CU4 CU5 CU6 CU25	-200.0 to 600.0°C -200.0 to 550.0°C -200.0 to 300.0°C -200.0 to 300.0°C -200.0 to 300.0°C -200.0 to 300.0°C -200.0 to 300.0°C -200.0 to 300.0°C -200.0 to 300.0°C	-328.0 to 1112.0°F -328.0 to 1022.0°F -328.0 to 572.0°F -328.0 to 572.0°F	JIS C1604-1989, JIS C1606-1997, IEC751-1995, DIN IEC751-1996 JIS C1604-1989, JIS C1606-1989 CU10 Ω GE1 (Cuid based on a particular manufacturer) CU10 Ω L&N (Cuid based on a particular manufacturer) CU10 Ω WEED (Cuid based on a particular manufacturer) CU10 Ω BAILAY (Cuid based on a particular manufacturer) CU10 Ω a = 0.00392 at 20°C CU10 Ω α = 0.00393 at 20°C CU10 Ω α = 0.00425 at 0°C

Cu1 to 6, and Cu25 are options.

, ,

[5.9].

ON/OFF입력(DI)를 설정한다

ON/OFF



=> [

1

>> Note



.

+

, DISP/ENTER . ESC [] . DISP/ENTER .

가 +

, , 가

	가
DI	0:2.4V
	1:2.4V
	0 :
	1:

차연산(DELTA) 설정한다



2

Note

TC,RTD	1	3	가	
- TC 71	L .	-200 0 ~ 900		
~1	•	(-200.0 ~ 90	0.0) ~ (900.0-(-200.0)) ,	-1100.0 ~ 1100.0
	,	·	가	
6.	СН			
		()	
+				
		, DLSP/ENT	ER .	
DISP/ENT	ER	ESC .	· [J
-1				
+ 가		71		
	,	, 기 레지	츠저기느버의	
$\underline{x} = 0$ Delta	Volt	20 mV	-20.00 to 20.00 mV	
Della	von	60 mV	-60.00 to 60.00 mV	
		200 mV	-200.0 to 200.0 mV	
		2 V 6 V	-2.000 to 2.000 V -6.000 to 6.000 V	
		20 V	-20.00 to 20.00 V	
		50 V	-50.00 to 50.00 V	
Delta	TC	R S	–1760.0 to 1760.0°C –1760.0 to 1760.0°C	–3168 to 3168°F –3168 to 3168°F
		В	-1820.0 to 1820.0°C	–3276 to 3276°F
		K	-1570.0 to 1570.0°C	-2826 to 2826°F
		J	–1300.0 to 1300.0°C	-2340.0 to 2340.0°F
		Т	-600.0 to 600.0°C	−1080.0 to 1080.0°F
		N	-1300.0 to 1300.0°C	-2340 to 2340°F
		L	-1100.0 to 1100.0°C	–1980.0 to 1980.0°F
		U	-600.0 to 600.0°C	-1080.0 to 1080.0°F
Delta	RTD	Pt100	-800.0 to 800.0°C	-1440.0 to 1440.0°F
		JPT100 CU1 to 6 (CU10)	-/50.0 to /50.0°C -500.0 to 500.0°C (option)	-1350.0 to 1350.0°F -900.0 to 900.0°F
		CU25	-500.0 to 500.0°C (option)	–900.0 to 900.0°F
Delta	DI	Level	-1 to 1	
		Contact	-1 to 1	
+				
			(,TC,RTD,DI)	가
*			가	
:		, アト10.00	가 100.0	,

	10.00 - 100.0 = -90.00 .
*	가,,
:	가 10.00V, 가 5.00mV ,
	10.00V-5.00mV=5.00V .
*	[] [Sqrt] 가 .



6.		,							
				5	5				
*	가	: - 3000	00 ~ 30000						
*		:[.][.][][.][]	
*				•					

Note

*					
*	,				
,	-5 ~ 5	10,	-5.0 ~ 5.0	100	
10		, 100			가
, 가	가 100				

.

7.								
[] (가 가 =>[/	6])	DIS	SP/ENTER	
+			DISP/ []	ENTER		[DISP/EI	NTER]	ESC
+ [가]							
			1	가				
		тс	=>[5.1 =>[5.2		,]]	
		RTD	=>[5.2		,]	

(DI)

.]

=>[5.3 ON/OFF

DI

개평연산을 설정한다

5.6



Note

1

5. * *	, 가	: -30000 ~ 30000 : [.][.	4][][1[]	
*	- 4 -				
* *	10			3	
	가	가	100	· ·	
6.					
[] (6) => [,DISP/ENTER](3-22)		
+		DISP/ENTER []	DISP/ENTER	ESC	
	, ,	가 [5.1]		
+					

• Vmin: 스팬의 하한치

- Vmax: 스팬의 상한치
- Fmin: 변환후의 스케일 하한치
- Fmax: 변한후의 스케일 상한치
- Vx: 입력전압
- Fx: 스케일치

$$F_{x} = (F_{max} - F_{min}) \sqrt{\frac{V_{x} - V_{min}}{V_{max} - V_{min}}} + F_{min}$$

루트내가 -의 경우, 연산 결과는 Fmin < Fmax: "-******," Fmin > Fmax: "+*****" 으로 표시됩니다.

킵을 설정한다 5.



+

, DISP/ENTER , ESC . [] . DISP/ENTER .



- + (DX210/DX220/DX230)
- 3. -[OFF]

Note

|--|

+

DISP/ENTER ESC
[] DISP/ENTER

1		
	Off	
	2s	2
	5s	5
	10s	10
	Off	
	2 ~ 16	

5.9 A/D 변환기의 적분시간,측정주기,번아웃,기준접점보상



4. [Off],[Up],[Down] Off : Up: 가 Down: 가 [+*****] [-****] 5.RJC (Reference Junction Compensation) : : 6. (μV) 가 5 [] [] 1 (-20000μV ~ 20000μV, ΟµV) DISP/ENTER](3-21 =>[) + , DISP/ENTER ESC . DISP/ENTER [] +A/D A/D A/D 가 . 가 가 + OFF + [2.3] [] 가 To То 0 ,











/ : : : (ACK) :	/				
: : : (ACK) :		/	:		
: (ACK) :		:			
: (ACK) :		:			
		:	(ACK)
: (ACK)		:	(ACK)



/				
	/		/	:
	:			
	. :			
	· .	(ACK)
	. /	:	AGIX)
	:	(ACK)
	:			

채널NO.또는 태그명	TAG	01 -1.203	
알람 종류	TAG	02	—채널 표시 에리어
	H	-1.576	—측정치

/	
(:)/ / : : ()/ : :
(:): (ACK) / :
(:): (ACK) :



6.2 알람을 설정한다

,





2.On/Off (OFF) ON [],[], []

3.

N Noto

Note		
[6.3]	, (T t) ,	가 .
4.	.[]/,	
[5*	, DISP/ENTRE . =>](321)	
5.	가(ON) 가(OFF) [ON]	
6*.	. =>[2.4 ()	(,/A1~A5)
*	(/A1~A5)가 , , , , , , , , , , , , , , , , , , ,	, , , , , , , , , , , , , , , , , , ,
+	, DISP/ENTER . ESC [] DISP/ENTER .	
+ 8		
7	·	
7	· 가 · ·	
2	·····································	
2		
([6.4.]	() ([1.5 ()]),	
([0.+]	()	
	([1.5 ()]) , .([6.4])
7	가 (,[6.3	
]) .	
7	가 (,[6.3	
	J / ·	

6.3 알람 릴레이 시간을 설정한다









알람 보조기능을 설정(기본설정모드)







NO = Normally opened ; C = common ; and NC = normally closed



] / () [6.1]

+

1





DISP/ENTER [] .

7.2 태그표시/채널표시를 선택(기본설정모드)



변경 설정한다 표 주기



1.

[15s]*,[30s]*,[1min],[2min],[5min],[10min],[20min],[30min],[1h], [2h],[4h],[10h] . *DX204,DX208

+		, DISP. []	/ENTER	DISP/ENTER	ESC	
>> Note						
[]	[]	, [[]	
[]		가	. [] [8.8]	
+		/				

	(/DIV)	15s*	30s*	1min	2min	5min	10min	20min	30min	1h	2h	4h	10h
		0.5	1	2	4	10	20	40	60	120	240	480	1200
	()												
		2376	1188	594	1 29	7 119	59	30	20	10	5	2.5	1.0
(min/h)												

메세지 문자열을 사용한다(트랜드) 7.4

- ()
- : 8 : 가 / 16 *
 - [4.5] . 1,2,3 (,/BT1)

•

•

,

•

.

Note

*

			,	/			•
· (,/BT1)						
*FUNC		/					
1.FUNC		가					
2.[]		. 1~0					
Messase							
\square							
3.					/	/	가
		i					

Nessage2 :					
Nessage3 :					
Nessage4 :					
Nessaget : Messaget :					
Nessage7 :					
1essage8 :					
		-	-	Concession of the local division of the loca	

*USER

USER				
1.USER		, USER	(1~8)	/
/	가			

(),/BT1) +

		/		/
*1FUNC				
*[]	. [],[]	가





.

7.5 메세지 문자열을 설정한다(트랜드)



7.6 그룹을 설정한다



Note

* *	,	, 2	가		•
+		2		•	

DISP/ENTER ESC [] DISP/ENTER

그룹 설정의 초기값

구룹명 초기값 Group 1: GROUP 1 Group 2: GROUP 2 Group 3: GROUP 3 Group 4: GROUP 4

채널 할당의 초기값은 실제 장착채널수에 의해 다릅니다.

DX204	DX208	DX210
01.02.03.04	01.02.03.04.05.06.07.08	01.02.03.04.05.06.07.08.09.10
01.02.03.04	01.02.03.04.05.06.07.08	01.02.03.04.05.06.07.08.09.10
01.02.03.04	01.02.03.04.05.06.07.08	01.02.03.04.05.06.07.08.09.10
01.02.03.04	01.02.03.04.05.06.07.08	01.02.03.04.05.06.07.08.09.10
	DX204 01.02.03.04 01.02.03.04 01.02.03.04 01.02.03.04	DX204DX20801.02.03.0401.02.03.04.05.06.07.0801.02.03.0401.02.03.04.05.06.07.0801.02.03.0401.02.03.04.05.06.07.0801.02.03.0401.02.03.04.05.06.07.08

그룹번호

	DX220	DX230
1	01.02.03.04.05.06.07.08.09.10	01.02.03.04.05.06.07.08.09.10
2	11.12.13.14.15.16.17.18.19.20	11.12.13.14.15.16.17.18.19.20
3	01.02.03.04.05.06.07.08.09.10	21.22.23.24.25.26.27.28.29.30
4	11.12.13.14.15.16.17.18.19.20	01.02.03.04.05.06.07.08.09.10
7.7 트립라인을 설정한다(트랜드)



[] DISP/ENTER

+

No.1 : No.2 : No.3 : No.4 :

+

(16)



.)

죤표시를 사용한다(트랜드



7.9



.)

+ 2. [4]~[12],[C10] , ,0,30,50,70 100% 7 ... + ...

.

.

3. ()[][].

Note

		([7.13])	
[]()	

+ 4.

ON([4.3]) [1]~[10] .

]~[10] . [OFF] .

Note

*			
*	가	,	

+

, DISP/ENTER . , ESC . [] DISP/ENTER .

스케일 사양 트레 드

+

+

1~10

10,9,8,7,6,5,4,3,2,1



위그림과 같이 스케일에는 4~12분할및 C10의 10종류가 있습니다.

- Scale for display position 1: 4 scale division example (Span: 0 to 100, Unit: UNIT)
- Scale for display position 2: 5 scale division example (Span: 0 to 100, Unit: UNIT)
- Scale for display position 3: 6 scale division example (Span: 0 to 100, Unit: UNIT)
- Scale for display position 4: 7 scale division example (Span: 0 to 100, Unit: UNIT)
- Scale for display position 5: 8 scale division example (Span: 0 to 100, Unit: UNIT)
- Scale for display position 6: 9 scale division example (Span: 0 to 100, Unit: UNIT)
- Scale for display position 7: 10 scale division example (Span: 0 to 100, Unit: UNIT)
- Scale for display position 8: 11 scale division example (Span: 0 to 100, Unit: UNIT)
- Scale for display position 9: 12 scale division example (Span: 0 to 100, Unit: UNIT)
- Scale for display position 10: C10 scale division example (Span: 0 to 100, Unit: UNIT)

+	가 [C1	0]						
[C10]				가				
[C10]		,			10	(, 0,20,40,60,80	100%
	가)					

가

1,2,3,4,5,6,7,8,9,10

.



+







*		l	/]
		Off가	
*		[]	1 digit
	[])])







Note



7.14 화면의 휘도,백라이트 세이버 기능을 설정한다



	DISP/ENTER			
	ESC]
DISP/ENTER				

7.15 4화면에 이름을 붙인다



8.1 저장/보존할수 있는 데이터의 종류

데이티의 종류와 파일명

+

· ([9.1]) ([9.6])가 .

	* * / * ,	フト .(가.)
	* / * 7ŀ	가 .	
	* / . * :	.()
	* (),, . * 50 *		/
	() * :		
TLOG ()	*TLOG , , , , , , , , , , , , , , , , , , ,	,	3
	* 400 *TLOG * :	()
()	*,,,, . [1,	1)	
	* 40 * 30 * *	.()

+		
,	, ,TLOG (), ()	
[(+),] , .	
*	: Mddhhmma.DDS	
*	: Mddhhmma.DEV	
*	: Mddhhmma.DMN	
*TLOG	: Mddhhmma.DTG	
*	: Mddhhmma.DHR	
*	: Mddhhmma.DDR	
*	: Mddhhmma.DWR	
*	: Mddhhmma.DMR	
, M: (1~9,X(10),Y(11),Z(12)),dd: , hh: , min: a:	
Note		
	0.	
,	1 ,	
	, 2 ,Mddhhmm(, , ,)	
	0,2 1.	

8.2 표시/이벤트 데이터를 내부메모리에 저장









,

대상 체널

내부메모리로의 데이티 저장

+				
START	71	JL	J STOP	·
Onaci		フト,	가 16	
*				
	, 1	-		·
	,	[84]	,	•
	,	[0]	-	

Note

*		,	.=>[4.5]
*	,		

[],[] 3 가 .

START		STOP				
		가,	*가	16		
*	1					
	, I	~ ([8 11])	·		
	•	, , , , , , , , , , , , , , , , , , , ,	[8.4]	•		
		:				
	,		START ,	가		
	,	([8.11 7L])	,		
	•	21				
		:				
		()	. START	,		
가		, 71	71			
		· /r	, 가 가			
			, 1			
		:				
	-1					
START	, 7f	7ŀ	71			
		. 1	STOP	,		
		:				
71	,	()	. START	,		
71	•	, 7ŀ	가	,		
		- I	가 ,			
		가	가 ,			

가 []	[]

		가	%(0,5,25,50,75,95,100%)				
0%	,		가		0%		

+

가[][]

OR 가 가

	[FUNC] - [] フト	(USER [])
	7ŀ	[]가	([10.9])
	1	가 .	
+	1		
	가	/ ,	/
	가	가	
	,	가	
		·	

.

,

4	/	8	/
2	/	4	/

1,200,000	/(X4+	X8)
, 100	0,000		
*			
900,000	/(X4+	X8)
, 7	5,000		
*			
300,000	/(X2+	X4)
, 3	0,000		
1,200,000	/(X2+	X4)
, 12	20,000		

가

.

	, 1.2 가 기
1.2 가	
	:0.9 가
	:0.3 가
1.2 가	

,

+

+

2 bytes (binary data)

Event data										
	1st scan									
CH1	CH2	CH3	CH4	CH31						
2nd scan										
CH1	CH2	CH3	CH4	CH31						
	to									
	nth scan									
CH1	CH2	CH3	CH4	CH31	1					

2 bytes (binary data)

	шах		шах		шах		шах	min	max
			2nd	scan					
CH1	CH1	CH2	CH2	СНЗ	CH3	CH4	CH4	CH31	CH31
min	max	min	max	min	max	min	max	min	max
	to								
	nth scan								
CH1	CH1	CH2	CH2	CH3	CH3	CH4	CH4	CH31	CH31
min	max	min	max	min	max	min	max	min	max
1 1									

:	1~4	1()		3	81()
		1st s	scan					
CH1 CH	I1 CH2	CH2	CH3 min	CH3	CH4 min	CH4	CH31	CH3

CH31

:2, ·

	=1,200,000/(12	X4	+6X8)=150,000	,
100,000			100,00)0	
	30mm/div(60)		=	
100,000	X60 = 6,000,0	00 (69)		
: 12, :	6				

,

1

I

=1,200,000/(12 X4 +6X9)=12,500
=12,500 X60 =750.000 (8)

:4,

400.000	=1,200,000/(4	X2	+0X4)=150,000	4
120,000	=120,000	=12 X1 =120	,000 ,000 (33)	1

: 12, : 6

=1,200,00	00/(12 X2	+6X4)=25,000				
1	=25	,000	X1 =25,000	(7)	

+

Г

: 2, :

	=900,000/(2	X4	+0X8)=112500
75,000			=75,000	30min/div
(60)		= 75,000	X60 =4,500,000 (52)
	=300,000/(2	X2	+0X4)=75,000 ,
3,000,000	3,000,000		=3,00	00,000
	1		=30,000	X1 =30,000 (8)

: 12,	: 6				
(=900,000/(2 60)	X4	+6X8 =9,375)=9,375 X60 =562,50	30mm/div 0 (6.5)
	=300,000/(12 1	X2	+6X4)=6,250 =6,250 X1	=6,250(1.7)

*

기타데이터를 내부메모리로 저장하는 기능설명 8.3

+	*	,	(, OFF)
	*	, 50	가	. 50	가
	>> Note				
				.([4	.5])
+7	rlog		() 7L		
	*	400	가가	. 400	, 가
	>> Note				
	* * 16	TLOO . 가 16 TLOG	G (가 40	가 .([4.5])
+	*		() 가		
	*	40 [] , 39/] , 40 1, 38/ 2	. 40	, 가
	>> Note				
				.([4.5])

내부메모리의 데이터를 외부기억미디어로 보





가

가 가 '.

Note

*

3		가	3	가,	
3	가			가	

+TLOG

TLOG 가 TLOG . , 가가.TLOG 가400 ,

Note

	가	가
TLOG	가	

+

가 ,

, , . 가 가 .

Note

가		3	가
,	가		

+

- * * * 0 * 7ŀ 257ŀ
- -* 1
- * 가 32가

표시데이터를 내부메모리에 저장 **8.5**

가 [Event] [E+D] [8.10][8.11]

가 [Event] [E+D] . [8.10][8.11] .						
+ 1.START , , 아이콘						
GROUP 1 Jan. 01. 2000 00:12:30 C DISP 5hour 1/16						
+						
Do you want to stop data storage?						
(,/M1) , [+](),[](), [] フト (,/BT1) [] ([10.13])						
Application name : AP Supervisor name : SUPERVISOR Manager name : MANAGER Batch name-No. : SAMPLE-0019 Comment 1: 2: 3:						
Do you want to stop data storage? Yes No						
2. []([+] []) DISP/ENTER ,						
>> Note * 가 가 16 가 .						
* / · · · · · · · · · · · · · · · · · ·						

•

이벤트 데이터를 내부메모리에 저장한다

가 [Event] [E+D] [8.10][8.11]

•

+ 1.START . ,	
아이콘	
GROUP 1 Jan. 01. 2000 00:12:30 💭 DISP 5hour 1/16	٥
+	
1.STOP	_
🛕 Do you want to stop data storage?	
Une No.	
Tes	
(,/M1) , [+]() [](1 7-
(,/BT1) []	([10.13])
Application name : AP Supervisor name : SUPERVISOR Manager name : MANAGER Batch name-No. : SAMPLE-0019 Comment 1: 2: 3:	
Po you want to stop data storage?	
2. []([+][] DISP/ENTER ,)
>> Note	
* 가 가, 가 16 가 * .	
* / / . *	

<mark>8.6</mark>

+[] /[]

1.START 가 가 , .(가) 2. 가 . • [8.2] [8.11]

1.FUNC , 가 2.[] *FUNC . *USER USER .

1.USER , () ,[8.11]) .[4.2] + (가

Note

[] , アト	가, ,	. [FULL] .
+		([E+D])
[]((/BT	, [+](), [] 7) } .] . ([10.13])

, [+], [] DISP/ENTER 2. , [](

Note

*										
*						가	,			
*	/	,	,		/					
*				,						

8.7 내부메모리의 데이터를 외부기억 미디어에 보존

/TLOG ()/ () . / /

- + 1. .[]
 - 2. , [] DISP/ENTER . , [] DISP/ENTER .

	Not	te	
*			

*	[8.10] []	, 가	([10.4])		
* [8.2 *][8.3]	, [4.2	,]	가 . ,	가	

3.

+

1.[가 .]	フト	
2.[]	, DISP/ENTER	[.[]] . DISP/ENTER

Note

[[가]	.] 가	가 , 가	5	

+

, [8.9] . ,

•

, アト1 フト ,) [DATA0]

[DATA0.00] .



>> Note

* * *		, [4.2 , [9.5	·]			
* *ZIP	가	, [8.9] , [] , ZIP	. ([10.4])		

+ 1.[.] 가 .

Note

		,	가	,
*	가 16	,	([8.8]) 1 7-16	
([8.11])	1		,

.

•

+

							3	,	
				•					
1.FUNC		,		가					
		:			ŕ	՝1가			
		:				*1가			*1*2
	*1 *2		, [8	3.11]					
	2			,					



표시데이터 자동 저장 주기를 설정한다



+ , DISP/ENTER , , ESC [] DISP/ENTER

+	(3	/	()		가	가 /) ([8.10])
Display update rate (/DIV)	15 s*	30 s*	1 min	2 min	5 min	10 min	20 min	30 min	1 h	2 h	4 h	10 h
Sampling interval (s)	0.5	1	2	4	10	20	40	60	120	240	480	1200
Auto save interval (choices)	10 min 20 min 30 min 1 h 2 h 3 h 4 h 6 h 8 h 12 h	10 min 20 min 30 min 2 h 3 h 4 h 6 h 8 h 12 h 1 day	10 min 20 min 30 min 2 h 3 h 4 h 6 h 8 h 12 h 1 day 2 day	10 min 20 min 30 min 2 h 3 h 4 h 6 h 8 h 12 h 1 day 2 day 3 day	10 min 20 min 30 min 2 h 3 h 4 h 6 h 8 h 12 h 1 day 2 day 3 day 5 day 7 day 10 day	10 min 20 min 30 min 2 h 3 h 4 h 6 h 8 h 12 h 1 day 2 day 3 day 5 day 7 day 10 day 14 day	1 h 2 h 3 h 6 h 12 h 1 day 2 day 3 day 5 day 7 day 10 day 14 day 31 day	1 h 2 h 3 h 6 h 1 day 2 day 3 day 5 day 7 day 10 day 14 day 31 day	1 h 2 h 3 h 6 h 1 day 2 day 3 day 5 day 7 day 10 day 14 day 31 day	2 h 3 h 4 h 6 h 1 day 2 day 3 day 7 day 10 day 14 day 31 day	4 h 6 h 1 2 h 1 day 2 day 3 day 5 day 7 day 10 day 14 day 31 day	8 h 12 h 1 day 2 day 3 day 5 day 7 day 10 day 14 day 31 day

*DX204, DX208만













,

+



.


랜드표시/데이터보존할 8.10 채널설정



8.11 표시데이터/이벤트데이터의 저장/보존방식을 설정



소프트키를 누릅니다. 설정 화면이 표시됩니다. #2



+

1.

[][]

Note

1	[]()	,		([8.9])	
+ 2. [Display]									
1	[]()	, 2 .([8.8]	[]		,		

.

*					
2. [Event] .	가				
3					
DX204/DX208:125ms/250 DX210/DX220/DX230:1s/2	ms/500ms/1s/2s/5s/10 2s/5s/10s/30s/60s/120	0s/30s/60s/120s/30 9s/300s/600s	00s/600s		
4. [],[],[] [] [] [][]] [] 5.6.7.8				
5					
[1],[2],[3],[4],[8],[16] ([1],[2],[4])		
6					
	(3,), , ,	/	([8.10])
7					
(0,5,25,50,75,95,100%)	. 0%	•	가	%	
8 : : :	On () , On	, On			
>> Note					
*[]On *	가	가			
*[],[],[] OR	. ON	7	' 	가	
* 2.					
[E+D] . ,	가 []		[]
>> Note					
[]() , .([8.8]	2 [E+D])	3		

+

·	[]	DISP/E	NTER	DISP	/ENTER			ESC	C		
+		/		([8.10]	l	() アト				/)
Sample rate (s)	0.125*	0.25*	0.5*	1	2	5	10	30	60	120	300	600
Data length (choices)	3 min 5 min 10 min 20 min 30 min 1 h 2 h 3 h	3 min 5 min 20 min 30 min 1 h 2 h 3 h 4 h 6 h	3 min 5 min 20 min 30 min 1 h 2 h 3 h 4 h 6 h 8 h 12 h	3 min 5 min 20 min 30 min 1 h 2 h 3 h 4 h 6 h 8 h 12 h 1 day	3 min 5 min 20 min 30 min 1 h 2 h 3 h 4 h 6 h 8 h 12 h 1 day 2 day	10 min 20 min 30 min 1 h 2 h 3 h 4 h 6 h 1 day 2 day 3 day 5 day	10 min 20 min 30 min 2 h 3 h 4 h 6 h 1 day 2 day 3 day 5 day 7 day 7 day 10 day	1 h 2 h 3 h 4 h 6 h 1 day 2 day 3 day 5 day 7 day 10 day 10 day	1 h 2 h 3 h 4 h 6 h 1 day 2 day 3 day 5 day 7 day 10 day 14 day 31 day	1 h 2 h 3 h 4 h 6 h 1 day 2 day 3 day 5 day 7 day 10 day 14 day 31 day	1 h 2 h 3 h 4 h 6 h 1 day 2 day 3 day 5 day 7 day 10 day 14 day 31 day	1 h 2 h 3 h 4 h 6 h 1 day 2 day 3 day 5 day 7 day 10 day 14 day 31 day









:	가[]		<u>15:25</u> 키조	조작에 의한 데이터 보존
13:10	14:00	15:00	16:00	17:00 Time
Start	Ļ	Ļ	ļ ļ	기억미디어에 보존

8.13 측정/연산 데이터를 수시 보존한다

/ (SKIP , Off) [8.3],[8.4] [2].

+FUNC

*

1.FUNC . 가 . 2.[] . (,Off)



+USER

1. , (, Off) , .

9.1 설정데이터를 보존한다/읽어들인다





, [10.7], .

.



. , [. [] DISP/ENTER .]



내부메모리의 데이터를 기억미디어에 보존 9.2



>> Note



,

표시데이터를 히스토리컬 트랜드 표시한다

•

,

.



Batch	Tine	File name 10401530 10402000 10402050 10402050	Batch DDS SAMPLE-0 DDS SAMPLE-0 DDS SAMPLE-0 DDS SAMPLE-0	name-No. 010 011 012 012
1.[] 기 기	۲ ۱	가 1	•	
2.	Ľ	가		
3.DISP/ENTER	, , . ,]	ESC	; .

9.3

이벤트 데이터를 히스토리컬 트랜드 표시한다





.

.

가

]

ESC

9.4

기억미디어의 파일을 조작한다/빈용량을 표시 9.5 하



()

(MENU) 를	누릅니다.
#5	
#7	소프트 키를 누릅니다. [파일소거]화면이 표시됩니다.

,

.

Directory name	File name	Time
/	10100090 DHR	2000/01/01 00:09
<u>B</u> A00	10100090 DDS	2000/01/01 00:09
B	10100160 DHR	2000/01/01 00:16
DOTOR	10100100 DDS	2000/01/01 00:16
TROCH	10100340 DDS	2000/01/01 00:34
INNON	10100340 DEV	2000/01/01 00:34
	10100530 DHR	2000/01/01 00:53
· · · · · ·	10100430 DDS	2000/01/01 00:54
	10100430 DEV	2000/01/01 00:54
	10100400 DHR	2000/01/01 00:40
	10100350 DDS	2000/01/01 00:40
	10100530 DEV	2000/01/01 00:54
	10100540 DHR	2000/01/01 00:54
	10100540 DDS	2000/01/01 00:54
	10100540 DEV	2000/01/01 00:54
	10100560 DHR	2000/01/01 00:56

+

1.	[1	71
[/] 2.		· · 가	
3.DISP/ENTER	_	•	

4.	DISP/ENTER	,	
	71		

가 . [] DISP/ENTER .

>> Note

*

+

1. [] 가 .[/]

2.DISP/ENTER

- 3. [] DISP/ENTER 7 [] DISP/ENTER

Note

ESC	, [,]	

.

+

- 1. , [] 가
- . [/]
- 2.DISP/ENTER ,
-] [] DISP/ENTER .

Note

|--|





. MENU 를 누릅니다. FUNC 를 3초이상 계속 누릅니다. 기본설정 모드의 메뉴화면이 표시됩니다. 소프트 키를 누릅니다. #4 [파일조작, 초기화]의 메뉴화면이 표시됩니다. 소프트 키를 누릅니다. #4 [포멧]의 화면이 표시됩니다. Format Volume name Type Quick

(

)

+

화면 이미지 데이터를 보존한다 9.6

FUNC USER*

12K / . * [10.2] []

+FUNC

- 1. 가 2.FUNC
- 가 가 3.[]



+USER

- USER . USER () . , , , 1. . 가 2.USER 가 .

+

- [PNG] .
- + [(
 -),PNG] +

.

.

.

Mddhh mma, PNG , M: (1~9, X(10), Y(11), Z(12)), dd: hh: , mm: a:

.

>> Note

0 . 1 2 ,2 7f0,2 , Mddhhmm() , 가 1 .

9.7 내부 메모리의 데이터를 클리어 한다





10.1 USER 키를 사용한다

USER

가 [10.2] [ACK]([6.1])가



.

.

USER key

+

	-	
	8.6	
ACK	6.1	
	11.3	
	11.3	
	8.13	
1~8	7.4	
	9.6	

10.2 USER키에 동작을 할당한다



DISP/ENTER ESC . [] DISP/ENTER

.

	-								
	8.6								
		(
								=>[8.11])
ACK	6.1		/			[
		[]		=;	>[6.4])			
	11.3			/	((/M1))	
	11.3				. (0	,	(/M1)	,	
)				
	8.13				1				
1~8	7.4		1~8			,			
	9.6								

[ACK]가 .

.

*

10.3 키록을 사용한다

, ,	,		가	
OFF	ON/OFF	3	ON	
1.FUNC 2.[]	. 가			



Note

*	가	[1	가
*	,	-	([4.2]])

1.FUNC 가. 2.[]

	π-o Keylock cancel Password :		
3.	([10.4]) =>[, DISP/ENTER](3-22)	

10.4 키록기능의 사양을 설정 한다(기본설정모드)



()

	UN
START STOP MENU USER DISP/ENTER [ACK]	
*[] *1 *[] *1 *[] *1	
*[] *2 *[] *2 * [] *2 * [] *2 *	- - - - - - - - - -
*	
*1 [] 3 *2 [] 8 *3 ON	· · ·

10.5 키조작으로 로그인/로그아웃 하는 기능

.

>> Note



사용자 명



.(.) [ON]

/

,

.

ON

/



10



6.		(71	/	16)	
[]	(- 1	, , ,	10)	•
			D	ISP/ENTE	R .		
			=>	>[](3-22)	

>> Note

*	(,/BT1)	,	
*	[] [quit]		
		•	

7.	ID				
	6	,	ID(4)
8.					
	6	,	(6)

Note

(,/	BT1)	ID	가		
				[]	•

.

.

.

.

9.

	가	가
가 :		
가 :		

Note

5	5	[] [[ON]	가]	가]]	[가] 가		3
[가]		. (.)	

+

DISP/ENTER .

*	(,/BT1)			
		[]	가
	•	, DISP/ENTER	•		

*	(,/BT1)	, []		가
II	כ			가		•	

71	•	U		
[ID		,	Í
			•	

ESC [] DISP/ENTER

10.7 아래의 리스트를 로그화면에 표시 할수 있습니다



DISP/ENTER

.

.

[12]

The number of the log displayed at the last line of the screen / total number of logs Date and time of occurrence

	Err	or code Error message
(005/005) Tine	No.	Message
Jan. 12. 2000 00:36:47	201	"Not enough free space on media."
Jan. 12. 2000 00:36:19	210	"Media has not been inserted."
Jan. 11. 2000 04:15:30	005	"The input numerical value exceeds the set range
Jan.11.2000 04:15:28	005	"The input numerical value exceeds the set range
Jan.11.2000 03:23:19	601	"Measured data have been initialized."

,

Key login/logout log

(807/807) Time	1/0	No.	User Nane
Jan. 01. 2000 08:59:34	ln	01	user1
Jan. 01. 2000 08: 59: 29	Out		
Jan.01.2000 08:52:51	In	01	user1
Jan.01.2000 08:21:45	ln	01	user1
Jan.01.2000 08:15:17	In	01	user1
Jan.01.2000 08:14:45	Out		
Jan.01.2000 08:14:35	լը	Q1	user1
			User name
		User	No.
Date/time	Login/	logou	t

Communication command log

(007/007) Time	ID	User	Nane [/0	Nessage	Link 🛛	
Jan. 06. 2000 18:52:23	1	user	<	(Losout)		
Jan. 86. 2000 18:52:23	1	user	>	CC Ø		AbessaM
Jan. 06. 2000 18:51:48	1	user	<	(259)		- message
Jan. 06. 2000 18:51:48	1	user	>	FD 0,001,010		
Jan. 86. 2000 18:51:41	1	user	<	EØ		
Jan. 06. 2000 18:51:41	1	user	>	B0 Ø		
Jan. 06. 2000 18:51:37	1	user	<	(Login)		
			 /C (>	D symbol : input, <: outp	out)	
		Na	me of the use	er that accesse	ed this ir	nstrument
	A	num	ber used to i	dentify the use	er that is	s connected
Date and t	ime	e wh	en the acces	s occurred		

Key login/logout log

(007/007) Time	1/0	No.	User Nane
Jan. 01. 2000 08: 59: 34	ln	81	user1
Jan.01.2000 08:59:29	Out		
Jan.01.2000 08:52:51	In	01	user1
Jan.01.2000 08:21:45	ln	01	user1
Jan.01.2000 08:15:17	In	01	user1
Jan.01.2000 08:14:45	Out		
Jan.01.2000 08:14:35	lņ	Ø1	user1
			소삭시의 사용자명

로그인/로그아웃한 시간

통신 코멘드 로그표시

(007/007) Tine	ID	User Nane	I/0	Nessage	Link 🛛	
Jan. 06. 2000 18:52:23	1	user	<	(Logout)		
Jan. 06. 2000 18:52:23	1	user	>	CC 8		Messade
Jan. 06. 2000 18:51:48	1	user	<	(259)		meeoage
Jan. 06. 2000 18:51:48	1	user	>	FD 0,001,010		
Jan. 06. 2000 18:51:41	1	user	<	EØ		
Jan. 06. 2000 18:51:41	1	user	>	B0 Ø		
Jan. 06. 2000 18:51:37	1	user	<	(Login)		
		본기기0	입출력 : ╢억세스	기호(>:입력, 한 사용자명	, <:출력) 명	
접 본기기에 억서	속 네스	하고 있는 ≥한 일시	= 사용지	ト를 식별하는	: 번호	

FTP log

Jan. 01. 2000 01:50:22 282 HOSTNAME S 10101500. DDS	
Jan. 01. 2000 01:50:22 282 UNREACH P 10101500. DDS	
Jan. 01. 2000 01:49:32 P 10101490. DDS - File name	
Jan. 01. 2000 01:48:51 P 10101480. DDS	
Jan. 01. 2000 01:48:27 P DX_FTPC. TXT	
FTP server (P: primary, S: seconda	ry)
Error code	

Date and time when the file transfer was made

Web operation log



E-mail log

(005/005) Tine	Туре	No.	Recipient /	/ Error				
Jan. 07. 2001 01:00:24	Full	264	1+2 Some r	ecipients'	addresses	are inv		
Jan. 07. 2001 01:00:01	Tine		1 H_S					
Jan.07.2001 01:00:00	Report		1 H_S					
Jan. 07. 2001 00: 59: 53	Report		1 H_S					
Jan. 06. 2001 01:02:21	Alarn		1 H_S					
			Recipie	cipient a ent No.	ddress			
		Eri	or code	(see cha	apter 12	2)		
Date/time Mail type								

10.8 메모리 알람 시간을 설정한다


10.9 리포트 제어기능의 제어내용 설정



1~8 . 가



* : 250ms 기· . 기· .([8.2]]).

,

- * ACK: [ACK] : , 250ms () [ACK]
- * : [] : 250ms

00	00	~ 01	59									
) 10	01	50		10	00	00	가	
02	00	~ 57	59									
58	00	~ 59	59									
) 10	59	50		11	00	00	가	

+ ():[] * : 250ms * (,/M1)

+ :[] * : 250ms * 1 , Off * :[1]~[3] * : ,250ms * [LOAD1.PNL],[LOAD2,PNL], [LOAD3,PNL] [LOAD3,PNL], [LOAD3,PNL] 7]



가 • Hi -> Lo

0.10 표시 언어를 설정한다(기본설정모드)

, , ,

.



DISP/ENTER ESC [] DISP/ENTER

10.11 배치번호/로트번호/코멘트를 변경한다

.

.

.

.

.

4

,



=>[

](3-21)



Note

*	,	1		• ,
*			,	

.

+ . DISP/ENTER ESC ,

10.12 배치 정보를 설정한다(옵션)



)

3. , (16) . 1 4. , (16) 1 5. [] 1 DISP/ENTER](3-21) 가) (0~9999) . =>[가(6.) +1 (/ . +1

On : +1 Off :

.

[]

Note

	9999			0				
7		()			
		:	/			•	,	

+ DISP/ENTER . ESC . DISP/ENTER .

10.13 배치(Batch)기능을 설정한다(/BT1)



.



1. On/Off

Select whether or not to use the daylight savings time adjustment function. If [On] is selected, a box used to enter the year, month, and day appears. If this parameter is set to [On] and the summer/winter time is set, this parameter turns [Off] automatically when the set time is elapsed.

2. Summer/Winter

Set the time at which the daylight savings time adjustment is to be enabled/disabled. Pressing the [Input] soft key or one of the character/number input keys displays a window used to enter the year, month, day, and time. Enter the values and press the DISP/ENTER key. For the procedures related to entering numerical values, see "Entering Numbers" on page 3-21.

연산기능/레포트 기능(옵션) 11.1

가 /

[11.11][11.13]

.

,

_	,		
DX204	31~38(8)	
DX208	31~38(8)	
DX210	31~60(30)	
DX220	31~60(30)	
DX230	31~60(30)	

+

, X,n у · []

	+ , - , * , /	가		•			
	**			. y=X	ſ		
	SQR()						
	ABS()						
	LOG()			. у	=log10x		
е	EXP()		е				
	.LT., .LE., .GT., .GE., .EQ., .NE.	2 "0"	, "1"	<, ≤	, >, ≥, =,	≠	
	AND, OR, XOR, NOT	2 () "0","1"	AND(,),OR(),XOR NOT()
	TLOG.SUM(), TLOG.MAX(), TLOG.MIN(), TLOGAVE(), TLOG.P-P()		(AVE),	- [11.7	(SUM), (P-P) 3]	(MAX), TLOG	(MIN)

+ TLOG

NO.

NO

(K01~K30) K01~K30

(

K01~K30 5): -9.9999E+29~-1.0000E-30, 0, 1.0000E-30~9.9999E+29



+

,

$$=>[11.4] =>[7.6] =>[7.6] =>[7.1], [7.2] =>[7.8] =>[7.9] =>[7.10] =>[7.10] =>[7.10] =>[7.10] =>[7.10] =>[7.10] =>[7.4], [7.12]$$

, -9999999~99999999 .

.

가

.

,

가

,

가 99999999				+	+ ******
가 - 9999999				-	- *****
	3.4X10	38			+ ******
-3.4X10 38					*****
			가		+ ******
*X/0					
*SQR(-X)					
*LOQ(-X)					
*					
([11.2])	17			+ *****

+

			1,
64 .	[Off]()	
[11.10]			

+						
	4				(H)	(L),
	(H)	(t)		0		
[11.5]			[4.2],[6.1]		

+

+	1									
			[8.10	,][8.11]	/				
TLOC			가 [8.12]				, [Off]			
TLOG						[11.7][11.8][11.9]	
+				544 4	,	[44.0	l			
TLOG		,		. [11.4 . [11.9]~ 9]	[11.6]	l			

+

11.2 연산식의 의미와 쓰는법



•			(C01~	, C30),	, ((, (D0)1,LT,ABS()	(K01~K30 01~D08) 02))	D) (C01~C	230)
	02.LT.03 2	가	3		,	[1]	[0]	
	02.GT.03 2	가	3			[1]		[0]	
	02.EQ.03 2		3	가	3	[1]		[0]	
	02.NE.03 2		3	가		3	[1]	. [0]	
	02.GE.03 2	가 [0]	3.		가 3			[1]	
	02.LE.03 2		3 [0]		가 3			[1]	
+	2 AND	, e1	e2(NOT (D01~	e1 D08))가 "0"	"0 ,	'가,	(K01~K03),	(C01~C30),
	() e1AN () 2 () e1=0 e2=0	IDe2	e1 e27 e1AND	'ŀ "0" e2=0	"	"1" 2	"O"		
	e1 (e2=0)	e1ANDe	e2=0					
	e1=0 e2 ()	e1AND	e2=0					
	e1 (e2 ()	e1ANDe	e2=0					

+

OR

((() e10Re2) 2) e1=0 e2=0	e1 e2가 e10Re2=0	"0"	"0"	"1"	·		
	e1 0 e2=0	e10Re2=1						
	e1=0 e2 0	e10Re2=1						
XOR	e1 0 e2 0	e10Re2=1						
(() e1XORe2) 2) e1=0 e2=0	e1 e2 e1XORe2=0	("0"	"0 ")가	"1"	"O"	
	e1 0 e2=0	e1XORe2=1						
	e1=0 e2 0	e1XORe2=1						
NOT	e1 0 e2 0	e1XORe2=0						
(() NOTe1)) e1=0 e2 0	e1 ("0" NOTe=1 NOTe=0	가 "0	" 가)	가			

01-02OR03.GT.04

	[01-02]	, [03,GT,04]	OR	
--	---------	--------------	----	--

+TLOG TLOG . . E1 e1 . 1 2 TLOG . TLOG.MAX()) TLOG.MAX(e1) () e1 (TLOG.MIN() () TLOG.MIN(e1)) e1 (TLOG.AVE() () TLOG.AVE(e1)) e1 (TLOG.SUM()) TLOG.SUM(e1) (() e1 TLOG.P-P(e1)) TLOG.P-P(e1) (() e1 TLOG.MAX(01)+K01*SQR(02) TLOG.MAX(01)+TLOG.AVE(02) :1 ` ´ TLOG가 2 TLOG.AVE(ABS(01)) 가 : () () +() (K), (C), (P) 1 , [01] [1] : 01, 1, K01, K1, C01, C1, D01, D1 * NO, NO NO 1 *1 , K01~K30, C01~C30, D01~08) 16 (가 [+******] 가 가 17

: 01+K01* (03+04*K02) 5

.

.

11.3 연산기능을 사용한다

- * / .
- START/STOP , FUNC , USER (USER START/STOP)
- FUNC , USER (USER)

+ /

- START/STOP

 *
 (
)

 1.START
 ,
 .
 =>[4.2]

 *
 (
)
- 1.STOP) 1.STOP . (,/BT1) 2. [+] DISP/ENTER , .

,

+FUNC

- 1.FUNC 가 [START]가 [STOP]
- *
- 2.[START]
 - . =>[4.2]



- *
- 2.[STOP]



USER USER

- / *
- 1.USER
- 1.USER

► Note

.

+

가 . . 0 ∟.

FUNC

1.FUNC		가			
2.[]	[]가		가	
Math reset					
USER					
USER 1.USER			가		

+

ACK

								연산아이콘	
GROUP Jan. 0	1 1.2000	22:42:18	\mathbb{R}	DI SP Event		1hour 1/1	6	0 🗒	••>>>
1.FUN	С			가					
2.[ACK]			, ,	ACK]21		()	

CPU

. 가, ,

연산채널을 설정한다



11.4



/

문자/수자 입력키

	(2DEF)	З GHI
(4 лкг)	5 MNO	6POR
7 <i>s</i> τυ	8 wx	9 yz
<u>+/*</u>	0 70°	<u>·_()</u>

연산요소

Key	Pressed Once	Twice	3 Times	4 Times	5 Times	6 Times
1	()	К	С	D	
2	+	-	*	/		
3	SQR(ABS(LOG(EXP(
4	.EQ.	.NE.	.GT.	.LT.	.GE.	.LE.
5	AND	NOT	XOR	OR		
6	TLOG.AVE(TLOG.MAX(TLOG.MIN(TLOG.SUM(TLOG.P-P(

11.5 알람을 설정한다



- L :
- Т:
- t :

Note

		, (Т	t)	3		가	
[6.3]	•					
4.							
[]	/	D	ISP/ENTER			
- +		=>[](3-21)			
5*.		(On) 가,	가(Off)	. On			
6*.							
*		(10.4	•	[2.4]			
		(/A1~A	5)				
		DISP/EN	ITER		ESC		
		[]		DISP/ENTER			

4 .

Н				·
L				· .
Т				가
	([6.3])
t			가	가
	([6.3])

11.6 정수를 설정한다



-9.9999E+29 ~ -1.0000E-30, 0 , 1.0000E-30 ~ 9.9999E+29



1.2.3 [11.8] .

TLOG

.



TLOG

TLOG . ,TLOG TLOG 가 .

	TLOG		
TLOG	TLOG /		TLOG
	,	TLOG	
TLOG	TLOG		
			/ .

+

/				
이상데이터 종류	TLOG연산			
	AVE	MAX/MIN/P-P	SUM	
Positive over*	not used	used	not used	
Negative over*	not used	used	not used	
Error	not used	not used	not used	
* 추정궤너이 레지 이비	떠느 여사케너이	акошо.		

* 측정채널의 렌지 오버 또는 연산채널의 연산오버의 경우입니다.

11.8 TLOG연산 타이머 번호/적산단위를 설정한다



 TLOG.SUM
 [Off],[/s],[/min],[/h]
 .

 [Off](
)
 . TLOG.SUM

DISP/ENTER ESC
[] DISP/ENTER

11.9	타이머를 설정한다(기본설정모드)
------	-------------------



[] .[],[],[],[] .

5. 19 1 ,2 ,3 ,4 ,5 ,6 ,10 ,12 ,15 ,20 ,30 ,1 ,2 ,3 ,6 ,8 ,12 ,24 ,2 [] (00~23) 7. / DISP/ENTER](3-21 =>[) TLOG TLOG On : TLOG Off: TLOG 8. / : Off: / • DISP/ENTER ESC . [] DISP/ENTER . ([])] TLOG [] [, 가 . (TLOG .) TLOG TLOG (가 [DTG]) TLOG ,[8] TLOG , . >> Note

TLOG ([11.8]) . [] .

11.10 장시간 이동 평균을 사용한다



1~64

		DISP/ENT	ER .	DISP/ENTER	ESC	•
*			가			
*	가					
	·		±100000000			
	,			·		

11.11 레포트 기능의 개요

ASCCII [2 ASCII]

- +
 - 2 1 / / /
 - * , 1 / / /
 - * , 1 , / / .
 - * 1 / / / .
 - [][][][][] / 30 / [] [Off]

+

가			가 가 가	가	/ ,/ ,/	, / 가
1	·	2	100 가 가 2 /60	1 가	가 2 , 3000 ㎡/	가 100㎡/
+		,				
		·			,	

/		
	1	
	/	•

+	1		
	, 	,	/
	+ *		
	-		

+

	, []-[[4.5]]	가		
/	가 가	(7	, 	1 ,	1)

/		
	E	
+	0	
-	0	
	가 , 가 ±5% 가 .	
가 2V	, 가 가 -2,000~2,000V , 2,200V + -2,200V	
	- 가 . 가TC() RTD()	
가	±10 가 . 가R	
가	가 0.0~1760.0 + , -10.0 - 가	
+	(3.4E +38) O	
-	(-3.4E -38) O	

	가	()
*	가	()
*+		99999
* -		- 99999
*	가	()
*	가 3.4E +38	9.999999E+99
*	가 -3.4E +38	-9.999999E+99

+

*

40

,

[8]

11.12 레포트 기능을 사용한다

+



・ , フト . [9.7] .
11.13 레포트 기능을 설정한다(기본설정모드)



3.	r 1		2	
(00~23)	· L J ·		2	
4. CH / /	가 .	. R01~R30		
5.On/Off On : Off :		. [Off]		
6.	/	. /		,

[] , [Off]

7. [Off],[1S],[1min],[/h],[1day] . [11.11] •

,

	DISP/E []	NTER	DISP/ENTER	, ESC	
1	[]	가		
3 3			가		

. . 가 가...

*	
	/ / /
1	· · · · · · · · · · · · · · · · · · ·
	System error.
2	, 3.7
	Incorrect date or time setting.
3	
	A disabled channel is selected.
4	·
	Incorrect function parameter.
5	· · ·
	The input numerical value exceeds the set range.
6	
	Incorrect input character string.
1	
0	
0	Incorrect input mode
a	
5	Incorrect input range code
21	
<u> </u>	Cannot set an alarm for a skipped channel.
22	가 5.1~5.7
	The upper and lower scale limits are equal.
23	가 5.5, 5.6
	The upper and lower scale limits are equal.
30	. 7.11
	The partial boundary value exceeds the range of the span
31	
	Partial-expansion display is set On for a SKIPPED channel
35	가 . 7.9
	The upper and lower limits of the display band are epual.
37	가 4% . 7.9
	The display band is narrower than 4% of the entire display
40	. 7.6
4.4	Incorrect group set character string
41	There is no energified input channel
	i nere is no specifiea input channei

+

		/ /
42	가 .	
	Exceeded the number of channels which can be set.	
43	2 .	7.6
	A channel number cannot repeat in a group.	
45		[]
	There is no character string saved in the clipboard	[] .
46		[]
	The character string saved in the clipboard is too long	
61		11.4
	There is no channel specified by the MATH expression	14.0
62		11.2
00	MATH expression grammar is incorrect	44.0
63	가 .	11.2
0.4	MATH expression sequence is incorrect	
64		11.4
70	MATH upper and lower span values are equal	
70		11.4
71	The range of the MATH constant is exceeded	11.6
<i>(</i> 1	Cat range of the MATH constant is even and	11.6
<u>81</u>	Set range of the MATH constant is exceeded	10.6
01	All appear or quit string connet be appeified	10:0
83		10.6 (7-
00	, Duplicate used combination of user ID and password	. 10.0 (1
85		10.5
00	The login password is incorrect	10.0
86		10.3
	The Key-lock release password is incorrect	
87		10.3
-	This Key is locked	
88	· · · · · · · · · · · · · · · · · · ·	10.3
	This function is locked	
89	. Func	10.5
	Press[FUNC]key to login	
90	· ·	10.5, 10.6
	No permission to enter to the SETUP mode	
91	가 .	10.3, 10.5
	Password is incorrect	
92	ESC 가 .	ESC .
	Press[ESC] key to change to the operation mode	
93		.Web /
	String including space or all space cannot be specified	
94	•	
100	More than one address cannot be specified	
100	IP 2F A,B,C .	
101	IP address doesn't belong to class A,B, or C	
101		
102		
103	The net part of default actomory is not actual to that of ID	oddroop
104	The net part of default gateway is not equal to that of IP	auuress
104	ETE client failed because the moment mode is (menue)	
	FIF client falled because the memory mode is manual	

+

+

			/	/
150	/ .	8.5	8.6	
	This action is not possible because sampling is in progress			
151		8.5.	8.6	11.3
	This action is not possible during sampling or calculating			
152				
	This action is not possible because saving is in progress			
153				
	This action is not possible because formatting is in progress			
155	· ·	8.5	8.6	
	The message is not written while sampling is stopped			
160	· ·			. 4.5 9.3 9.4
	Cannot load the specified data. Change the memory setting			

/ / 200 Operation aborted because an error was found in madia 201 . . Not enough free space on media 202 가 갸 . . Media is read-only 가 210 . . Media has not been inserted 가 211 가 Media is damaged or not formatted 212 . Format error 213 갸 . The file is read-only 214 갸 . There is no file or directory 215 - 가 . Exceeded the allowable number of files 216 8.9 , 9.1 . The file or directory name is incorrect 217 . Unknown file type 218 가 가

Directory exists Delete the directory change directory name 8.9

	/ /
219 .	2
Invalid file or directory operation	
220 .	. 가 .
The file is already in use. Try again later	
230 .	
There is no setting file	
231 .	
Abnormal setting exists in file	
232 가 .	
There is no available data	
233 .	
The specified historical data do not exist	4.5
234 .	/
The specified channel is not assigned to the display group	4.4 .7.6

+E-mail, Wed

260 가 가 IP 가 IP address is not set or ethernet function is not available IP .
261 SMTP DNS . SMTP server is not found SMTP
262 , . Cannot initiate E-mail transmission
263 가
264 가
265 가 . SMTP protocol error .
266
267 SMTP . SHTP 가 Could not connect to SMTP server IP 가 가 .
268
269 가 .
275WebWeb.The current image cannot be output to the Web
276 Web
277 Web

+FTP

	FTP	[DX100/DX200]
	FTP	FTP	
280	가 IP address is n 280	FTP가 . not set or FTP function is not available () ,	
	HOSTADDR IP DORMANT	가 . IP .	
	LINK 7	· የት	
281	FTP FTP mail box o 281 *	peration error () ,	
	MAIL		
	STATUS		
	TIME OUT		
	PRIO RITY		
	NVRAM		
282	FTP FTP control co 282	기 onnection error () ,	
	Hostname DNS (DNS TCP IP	IP) .	
	UNREACH		
	00BINLINE		
	NAME		
	CTRL	. 가 .	
	IAC TELNET 가	·	
	ECHO	. 가 ,	
	REPLY	· · · ·	
	가		

.

.

SERVER			
가	가		
가			

.

•

.

283 FTP

3	FTP FTP com	mand was not accepted 283	. ()	,
	USER				
	PASS				
	ACCT				
	TYPE				
	CWD	가			
	PORT			•	
	PASV				
	SCAN	PASV			
		PASV			

284 FTP

FTP transfer setting error

*					
	MODE				
	LOCAL		•		
	REMOTE		•		
	ABORT	,			•

.

285	FTP	가		
	FTP data o	connection error		
	28	5	()

SOCKET

*

BIND

CONNECT

LISTEN

ACCEPT

SOCKNAME

RECV

SEND

Note

*	FTP	2 가			
*	FTP	. 1	,	가	
, (IM04L(FTP 02A01 - 17)		[DX100/DX200]

]

.

,

- * / /

300	Command is too long
301	가 Too many number of commands delimited with
302	This command has not veen defined
350	Data request command can not be enumerated with sub-delimiter
351	Command is not permitted to the current user level
352	The option is not installed
353	This command cannot be specified in the current setting
354	This command is not available during sampling or calculating
*	/ / 가 . DX200 .
360	RS 가 . [XO] .
361	Output interface must be chosen from Ethernet or RS by using 'XO' command , 기
362	[MO DIR] [MI DIR] The memory data is not saved for the communication output
363	There are no data to send 'NEXT' or 'RESEND' , [NEXT] [RESEND]
	All data have already been transferred

+

+	/ 가 . DX200
390	Command error .
391	Delimiter error .
392	Parameter error .
393	No permission .
394	No such connection .
395	Use 'quit' to close this connection [quit]
396	Failed to disconnect
397	No TCP control block .
+	가 . DX200
400	Input username DX
401	Input password .
402	Select username from 'admin' or 'user' [admin] [user],
403	Login incorrect try again
404	No more login at the specified level is acceptable 가 가 [quit] 가
410	Login successful.(The special user level) .
411	Login successful(The general user level) .
420	Connection has been lost .
421	The number of simultaneous connection has been exceeded 3
422	Communication has timed-out

.

Note

	, [DX100/DX200]
(IM 04L02A01-17)		

+

- 500 Execution is complete
- 501 Please Wait a moment...
- 503 Data are being saved to media
- 504 File is being loaded from media
- 505 Formatting....
- 506 Momory save to media was interrupted
- 507 Exchange media to continue the saving operation 가
- 510 Range cannot be changed during sampling or calculating
- 511 MATH expression cannot be changed during sampling or calculating
- 520 Connecting to the line...
- 521 The data file is being transferred
- 551 FTP test is being executed... FTP

+

- 600 Measured data and Settings have been initialized...
- 601 Measured data have been initialized
- 610 This username is already registered
- 611 There is no user who can enter to the SETUP mode

+

가

가 .

901	ROM .
	ROM failure
902	RAM .
	RAM failure
910	A/D가 .
	A/D memory failure for all input channels
911	1 A/D 가 .
	Channel 1 A/D memory failure
912	2 A/D 가 .
	Channel 2 A/D memory failure
913	3 A/D 가 .
	Channel 3 A/D memory failure
914	4 A/D 가 .
	Channel 4 A/D memory failure
921	1 A/D 가 .
	Channel 1 A/D calibration value error
922	2 A/D 가 .
	Channel 2 A/D calibration value error
923	3 A/D 가 .
	Channel 3 A/D calibration value error
924	4 A/D 가 .
	Channel 4 A/D calibration value error
930	가 .
	Memory acquisition failure
940	
	The Ethernet module is down

가

12.2 고장 수리방법

전혀 동작 하지 않는다.







13.1 정기 점검 한다



13.2 전원 휘즈를 교환한다



,

.

4.

4

13.3 교정을 한다



(DX210)



측온저항체 사용 온도측정의 경우 (DX210의 예)



열전대 사용 온도측정의 경우(DX210의 예)



13.4 추천 부품 교환 주기

	,					
)					
•		フト	가	가	가	
2	FUSE	A1423EF	250V,	1.25A		1
2	FUSE	A1354EF	250V,	6.3A		1
5						1
10						1
5						1
						1
5						1
5						
					가	
	2 2 5 10 5 5 5	,) 2 FUSE 2 FUSE 5 10 5 5 5 5) 7 2 FUSE A1423EF 2 FUSE A1354EF 5 10 5 5 5) 7 ¹ 7 ¹ 7 ¹ 2 FUSE A1423EF 250V, 2 FUSE A1354EF 250V, 5 10 5 5 5) 7 7 7 2 FUSE A1423EF 250V, 1.25A 2 FUSE A1354EF 250V, 6.3A 5 10 5 5 5) 7 7 7 7 2 FUSE A1423EF 250V, 1.25A 2 FUSE A1354EF 250V, 6.3A 5 10 5 5 5 5

14.1 입력부 사양

+

D>	<204 : 4					
D	X208:8					
D	X210:10	1				
D	X220 : 20	1				
D	X230 : 30	1				
D>	<204, DX	208	: 125ms	250	ms	
D>	X210, DX	220, DX230	: 1s	2s(A/D	100ms	2s)
	(), TC(), RTD(), DI(ON/OFF)
	()			

Input type	Range	Measuring range				
	20 mV	-20.00 to) 20.00 mV			
	60 mV	-60.00 to 60.00 mV				
	200 mV	-200.0 to	200.0 mV			
Volt	2 V	-2.000 to	2.000 V			
	6 V	-6.000 to	6.000 V			
	20 V	-20.00 to	20.00 V			
	50 V	-50.00 to	50.00 V			
	R*1	0.0 to 1760°C	32 to 3200°F			
	S ^{*1}	0.0 to 1760°C	32 to 3200°F			
	B⁺1	0.0 to 1820°C	32 to 3308°F			
	K*1	-200.0 to 1370°C	–328 to 2498°F			
	E ^{*1}	–200.0 to 800°C	-328.0 to 1472.0°F			
тс	J*1	–200.0 to 1100°C	–328.0 to 2012.0°F			
	T ⁺¹	–200.0 to 400°C	–328.0 to 752.0°F			
	N [*] 1	0.0 to 1300°C	32 to 2372°F			
	W*2	0.0 to 2315°C	32 to 4199°F			
	L⁺₃	-200.0 to 900°C	–328.0 to 1652.0°F			
	U⁺₃	–200.0 to 400°C	–328.0 to 752.0°F			
	Pt100*4	–200.0 to 600°C	–328.0 to 1112.0°F			
RID®	JPt100 [*] 4	–200.0 to 550°C	–328.0 to 1022.0°F			
	DCV input	OFF : less than 2.	4 V			
DI	(TTL)	ON : more than 2.4 V				
	Contact input	Contact ON/OFF				

A/D	:	20ms(50Hz), 16.7m	s(60Hz), 100ms(DX2 ²	10, DX220, DX230),
		AUTO(20ms, 16.7ms)	
	:	ON/OFF 가(가)		
		/	가		
		DX204, DX208 :	ON/OFF 가	(가)
			2, 5, 10		

DX210, DX220, DX230 :	ON/OFF 가 (2 ~ 16	가	가)
: 가	가 , TC, RTD, DI		
, ア ア ・	, TC, RTD, DI 30000 ~ 30000 - フト - フト (6)		
:	, 가		

:

14.2 표시기능 사양

```
: 10.4 TFT
               LCD(480 X 640 )
               :
       ,
                                                       ,
         :
                ,
   : :
                1 (1 ) 10
60 (
4
         :
             ÷
                                )
                1, 2, 3
          :
                : (1div=30 )
                DX204, DX208, : 15, 30 , 1, 2, 5, 10, 20, 30 ,
                1, 2, 4, 10 /div
                   , 4, 10 / div

: 1 ( 7 2 2)

: , ( ON/OFF7))

, ( ON/OFF 7 ), ( 4~12

(:), ( 1,2,3 ),

( 16 , 8 ), , 7 ,

7 )
                                                        가 )
                       10 )
   : :
             1 (1
         :
                4
             : 1 ( 가2 2)
                , ,
    :
        :
                1 (1 10
                               )
                4
          :
                4~12 가
() (
1 ( 가2 2)
          :
             :
                                         )
            :
          :
                 3 3 3
                                         가
      , , 5 , 10 , 20 , 30 , 1
    :
   :
```



(1, 2, 5, 10, 20, 60 가), LCD , , , , ,

14.3 보존 기능 사양

7



1.2M	
	: 0.9M
	: 0.3M
1.2M	

4	/	8	/
2	/	4	/

1,200,000 /(, 100,000	X4+	X8)	
* 900,000 /(, 75,000 *	X2+	X8)	
300,000 /(, 30,000	X2+	X4)	
1,200,000 /(, 120,000	X2+	X4)	

: 20ch, 10ch, 30 /div(60) ch = 1,200,000 /(20X2 +10X4)=15,000 1 = 15,000X1 = 15,000 4 + = 900,000 75,000 = 300,00030,000 = .

Display data file only						(approx.)
Display rate (min/div)	1 min	5 min	20 min	30 min	60 min	240 min
Sampling interval (s)	2 s	10 s	40 s	60 s	120 s	480 s
Sampling length	41 h	8 days	34 days	52 days	104 days	416 days
Event data file only (approx						
Sampling interval	125 ms	500 ms	1 s	5 s	30 s	120 s
Sampling length	4.2 h	16 h	33 h	6 days	41 days	166 days
Display data file + Eve	ent data	file				
Display data file						(approx.)
Display rate (min/div)	1 min	5 min	20 min	30 min	60 min	240 min
Sampling interval (s)	2 s	10 s	40 s	60 s	120 s	480 s
Sampling length	31 h	6 days	26 days	39 days	78 days	312 days
Event data file						(

Event data file						
Sampling interval	125 ms	500 ms	1 s	5 s	30 s	120 s
Sampling length	1 h	4.2 h	8.3 h	41 h	10 days	41 days

In case measurement ch = 6 ch, mathematical ch = 0 ch

ch = 4ch, ch = 0ch

Display data file only						(approx.)
Display rate (min/div)	1 min	5 min	20 min	30 min	60 min	240 min
Sampling interval (s)	2 s	10 s	40 s	60 s	120 s	480 s
Sampling length	27 h	5 days	23 days	34 days	69 days	277 days

Event data file only

Sampling interval	1 s	5 s	10 s	30 s	60 s	120 s			
Sampling length	27 h	5 days	11 days	34 days	69 days	138 days			
Display data file + Event data file									

Display data file

(approx.)

(approx.)

Display rate (min/div)	1 min	5 min	20 min	30 min	60 min	240 min	
Sampling interval (s)	2 s	10 s	40 s	60 s	120 s	480 s	
Sampling length	20 h	4 days	17 days	26 days	52 days	208 days	
Event data file (approx.)							
Sampling interval	1 s	5 s	10 s	30 s	60 s	120 s	
Sampling length	6.9 h	34 h	2 days	8 days	17 days	34 days	

= 3		= 0				
Display data file only						(approx.)
Display rate (min/div)	1 min	5 min	20 min	30 min	60 min	240 min
Sampling interval (s)	2 s	10 s	40 s	60 s	120 s	480 s
Sampling length	5.6 h	27 h	4 days	6 days	13 days	55 days
Event data file only						(approx.)
Sampling interval	1 s	5 s	10 s	30 s	60 s	120 s
Sampling length	5.6 h	27 h	2 days	6 days	13 days	27 days
Display data file						(approx.)
Display data file						(approx.)
(min/div)	1 min	5 min	20 min	30 min	60 min	240 min
Sampling interval (s)	2 s	10 s	40 s	60 s	120 s	480 s
Sampling length	4.2 h	20 h	3 days	5 days	10 days	41 days
Event data file						(approx.)
Sampling interval	1 s	5 s	10 s	30 s	60 s	120 s
		COL	12 h	41 h	eveb £	6 dave



14.4 경보(알람) 기능의 사양

: 4 ; , , , ,() / () : 1 ~ 3600

: , X1~15

: , , / 가

: ON(0.5%)/OFF 가

(): : 2, 4, 6, 12, 24 : / , / , AND/OR, ,

> : / , 120 , .

14.5 통신기능의 사양



14.6 부가 사양



: RTU SLAVE, RTU MASTER : RTU SLAVE : ()	
, RTU MASTER : () (/M1



)

+	(/CF1) 가 FOUNDATION ,
DCS	가 : FOUNDATION Fieldbus H1(: 31.25kb/s) : 1/3(standard-power signaling bus powered, non I.S) : : : : 9~32VDC
: M4 가	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$
:	/M1
+VGA	(/D5)
:	480X640 (VGA) 15 D-SUB
+FAIL/	(/F1)
	: 250VDC/0.1A(), 250VAC(50/60Hz)3A :
	10%가 : 250VDC/0.1A() 250VAC(50/60Hz)/3A :
	: 1, 2, 5, 10, 20, 50, 100, 가
+	(/H2)
+	(H5[])
/H5 /H5M	(/DI) 2 - 3
+ ()(/M1) , / , 7ł : DX204, DX208 :8 DX210, DX220, DX230 : 30 : ; ; , , , , , , , , , , , , , , , , ,
	(AND, OR, NOT, XOR)



+Cu10, Cu25 /3 RTD (/N1) , Cu10, Cu25 7 . DX210, DX220, DX230 A,B,b

Cu10, Cu25 가 :

	Inpu	t type	N	leasuring range
RTD (measurement current : i = 1.25 mA)	Cu1 Cu1 Cu1 Cu1 Cu1 Cu1 Cu1	0 (GE) 0 (L&N) 0 (WEED) 0 (BAILEY) 0 : α = 0.00392 at 20°C 0 : α = 0.00393 at 20°C 5 : α = 0.00425 at 0°C	(-	–200 to 300°C 328.0 to 572.0°F)
()		
Input type		Accuracy guaranteed rang	ge	Measuring accuracy
Cu10 (GE)		−70 to 170°C		
Cu10 (L&N)		-75 to 150°C		
Cu10 (WEED)		-200 to 260°C		+ (0.4% of rdg + 1.0%
Cu10 (BAILEY)				± (0.4% of lug + 1.0*
Cu10 : a = 0.00392 at 20)°C	-200 to 300°C		

Cu10 : α = 0.00393 at 20°C	-20010 300-0	
Cu25 : α = 0.00425 at 0°C		± (0.3% of rdg + 0.8°C)
Pt100		1 (0.00) of rdr - 0.000)
Jpt100	Measuring range	± (0.3% of rdg + 0.6%)

- +3 RTD (/N2)
 - RTD() A,B,b) DX210, DX220, DX230 7 DX204, DX208 A,B,b

(/P1) +24V 24VDC 24VAC 가 [14.7] [][],] [], [: 24VDC/AC : 21.6V ~ 26.4VDC/AC : 500VAC(50/60Hz), 1 (: 50/60Hz(, AC)) : 50Hz±2%, 60Hz±2%(AC)

, , -

.

	: 4	0VA(DC), 50	VA(AC)				
Supply	/ voltage	Backlight savir	ng mode	Normal	Max.				
24 VDC	>	34 VA		35 VA	54 VA				
24 VAC	(50/60Hz)	50 VA		53 VA	76 VA				
			: 21.6 (24V) ±(0.1	~26.4V A AC) (I% of rdg	C/DC ±2 Hz g + 1digit)	: (±1digit 24VAC)	:
+		(/R1)							
						가 가	(8	가)	
	* A(CK(, 2	250ms)	/ /	`			
	*				(/ 250mc)			
	*	((, 250115)		250ms)
		(200110	,
	Time o	f signal input	t	Pr	ocessing				
	hh:00:0	0 to hh:01:59	Cut off	reading of	less than on	e minute.			
			e.g. 10:	00:50 is co	rrected as 1				
	hh:58:0	0 to hh:59:59	Round (e.a. 10:	up reading 59:50 is co	of less than rrected as 1	te.			
	hh:02:0	0 to hh:57:59	No proc	ess is to b	e performed				
						-			
	* * *	/ ((,2 (8 (/ , / , 29 250ms 3	/M1 50ms) フト ,) /M1 , 25) 50ms フト ,)	, 250ms)	
+24	VDC	: 4(/T : 22.8 : 4~: : 25m : RL EKS : 2Km :	(/T PS4), 8 3 ~ 25.2 20mA D ADC ((17.8- 5 17.8V n (CEV - -	T PS4, /T (/TPS8) VDC(C 22.8V 500V	PS8) 250) 20M 500VAC (4 AC(50/60H))/0.02A (500VD0 50/60Hz Hz, I=10r	ADC) , I=1(nA),) 5∨ DmA), 1 1	

14.7 일반 사양

•

+

÷



: : 23±2 , 55±10%RH, 90~132, 180~250VAC 50/60Hz±10% 30

Input	Range	Measuring accuracy (digital display)	Max. resolution of digital display
DC voltage	20 mV	± (0.1% of rdg + 2 digits)	10 µV
	60 mV		10 µV
	200 mV		100 μV
	2 V		1 mV
	6 V		1 mV
	20 V		10 mV
	50 V	± (0.1% of rdg + 3 digits)	10 mV
TC (Excluding the reference junction compensation accuracy)	R	± (0.15% of rdg + 1°C)	0.1°C
		However,	
	s	R, S: ± 3.7°C at 0 to 100°C,	
		± 1.5°C at 100 to 300°C	
	в	B: ± 2°C at 400 to 600°C	
		(Accuracy at less than 400°C is not guaranteed.)	
	к	± (0.15% of rdg + 0.7°C)	
		However, ± (0.15% of rdg + 1°C) at -200 to -100°C	
	E	± (0.15% of rdg + 0.5°C)	
	J	± (0.15% of rdg + 0.5°C)	
	Т	However, ± (0.15% of rdg + 0.7°C) at -200 to -100°C	
	Ν	± (0.15% of rdg + 0.7°C)	
	W	± (0.15% of rdg + 1°C)	
	L	± (0.15% of rdg + 0.5°C)	
	U	However, ± (0.15% of rdg + 0.7°C) at -200 to -100°C	
RTD	Pt100	± (0.15% of rdg + 0.3°C)	
	JPt100		
(digits)= (digits)X +2digits() (digits)/ (digits) =) DCV 6V 1,000 ~ 5,000V 0,000 ~ 2,000)= \pm (0.1%X5V+2digits)= \pm (0.005V(5digits)+2digits= \pm 7digits (6V =2000digits(0.000~2.000)/4000digits(1.000~5.000)=0.5 $=\pm(7X0.5+2)$ digits=6digits() , 가 (가) : 1) :TYPE R, S, B, W, : ±1 (0 TYPE K, J, E, T, N, L, U : ±0.5 : 2VDC : ±10VDC() 6V, 20V, 50VDC : ±60VDC() : 2VDC : 10M 6V, 20V, 50VDC 1M 2 2K : (3 :1 10) : 10mA : 150VACrms(50/60Hz) : 120dB (500 , 60V) : 120dB (50/60Hz ±0.1%, 500 -) ,

:

+

: 100~240VAC(/P1) 24VDC/AC(/P1) : 90~132, 180~264VDC (/P1) : 50/60Hz(AC) : 106VAC(/P1) 54VA(/P1,DC), 76VA(/P1,AC) : /P1

Supply voltage	Backlight saving mode	Normal	Max.
100 VAC	50 VA	53 VA	75 VA
240 VAC	78 VA	80 VA	106 VA

For /P1 model

Supply voltage	Backlight saving mode	Normal	Max.
24 VDC	34 VA	35 VA	54 VA
24 VAC (50/60Hz)	50 VA	53 VA	76 VA

+

+

: 90~132, 180~250VAC(/P1) 21.6V~26.4VDC/AC(/P1) : 50Hz ±2%, 60Hz ±2%(AC) , Zip : 0~50 (:5~40) : 20~80%RH(5~40) : 10~60Hz 0.2m/s 1 : 400A/m (DC 50,60Hz) : (50/60Hz): 가 1.2 ... 가 1.250mV (50/60Hz): 250VAC rms 30 가 : 30 1 : 2000m : 10 1 ±(0.1% of rdg+1digit) (,TC) \pm (0.1% of rdg+2digit) (RTD) : /P1 90~132, 180~250VAC 50/60Hz) : 1digit (100VAC) $\pm (0.1\% \text{ of } rdg+1digit)$ ±2Hz (/P1 21.6~26.4VDC/AC (AC 50/60Hz) : ±1digit 24VAC) ±2Hz ($\pm (0.1\% \text{ of } rdg+1 digit)$ (50/60Hz) 400A/m 1 : ±(0.1% of rdg +10digit) : +1K 2 (1) 2VDC ±10µV -0.1% of rdg 6VDC (2) ±10μV ±100µV) (, (PT100) (3) *1 10 (3) * ± (0.1% of rdg+1digit) 40m (3 0.1)

+

: -25 ~ 60 5 ~ 95%RH(:) 10 ~ 60Hz 4.9m/s2 : : 392m/s2 () + : () 가 () ±100ppm , ON (1 :) : 10 ,) (가 : ON/OFF 가 ON) : .(ID, (500VDC 20M 1) : : 1500VAC(50/60Hz) 1 (/P1) : 500VAC(50/60Hz) 1 (/P1) : 1500VAC(50/60Hz) 1 : 1500VAC(50/60Hz) 1 : 1000VAC(50/60Hz) 1 (DX210, DX220, DX230, RTD b) : 500VDC : 1 -.EMC CSA22.2 No.1010. 1 , UL3111-1(CSA NRTL/C) *1 : EN61010-1 *2 *1 (), , *2 2,) (EMC : EN6 1326-1

14.8 외형도





