

User's Manual

Supmea

Paperless Recorder

R6000F

Preface

Note



(Explosion-proof)

Version

STK-K-60-20-01

Safety Precautions

About this manual

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Precautions for protection, safety and modification of this product

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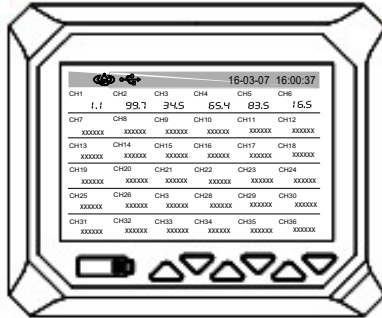
Package contents

No.	Name	Quantity	Note
1		1	
2		1	
3		1	
4		1	
5		1	
6		1	

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1.



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- 36 , 4 Relay , 24Vdc(150mA) ,

USB , RS485 ,

- 32 ARM9 , ,

" , , " 3가 ,

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1.1

Table 1-1 Main parameters

	7 TFT color LCD 800 * 480
	: 193 X 162 X 144mm : 138.5 X 138.5mm
	1.5mm~16.0mm
	1.06kg
	(176~264)VAC, 47~63Hz
	128M bytes Flash
USB	U disk support (standard USB2.0 communication interface)
	30VA , 15W
	(10~85)%RH (No condensation)
	(0~50)°C
	Temperature (-20~60) °C , relative humidity (5~95)%RH (no moisture condensation)

1.2

Table 12 DC voltage / current input

Type	(%FS)
(1~5) V	±0.1
(0~10) V	
(0~5) V	
(0~100) mV	
(4~20) mA	±0.2
(0~20) mA	
(0~10) mA	
(-20~20) mV	±0.25
(0~20) mV	

Table 1-3 Thermocouple Input (excl. cold junction error)

Type	(°C)	(°C)
B	600 ~ 1800	±2.4

E	-200 ~ 1000	± 2.4
J	-200 ~ 1200	± 2.4
K	-200 ~ -100	± 3.3
	-100 ~ 1300	± 2.0

Table 1-3 Thermocouple Input (excl. cold junction error)

Type	($^{\circ}\text{C}$)	($^{\circ}\text{C}$)
S	-50 ~ 100	± 3.7
	100 ~ 300	± 2.0
	300 ~ 1600	± 1.5
T	-200 ~ -100	± 1.9
	-100 ~ 380	± 1.6
R	-50 ~ 100	± 3.7
	100 ~ 300	± 2.0
	300 ~ 1600	± 1.5
N	-200 ~ 1300	± 3.0

Table 1-4 Thermocouple input

Type	Range ($^{\circ}\text{C}$)	Maximum allowable error ($^{\circ}\text{C}$)
Cu50	-50 ~ 140	± 1.0
Pt100	-200 ~ 800	± 1.0

Note: PT1000

RTD

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1.3

Table 1-5 Alarm output

Type	Range	Contact type	Contact capacity	Response cycle
Alarm output	0/1	Normally open contacts	2A /250VAC	1 second

1.4

Table 1-6 other parameters

	3.15A/250VAC, Hard-fusing type
	150mA, 24 VDC

	가
Relay	Relay * 4ea, 2A / 250VAC Normal open
	2-way RS-485 communication interface
	Adopting Modbus communication protocol
	1s

2.

OVERVIEW

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table2-1.

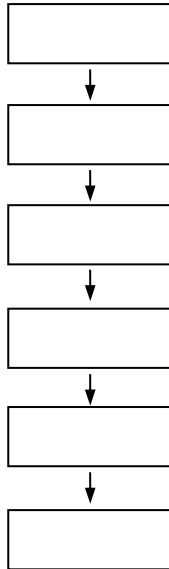


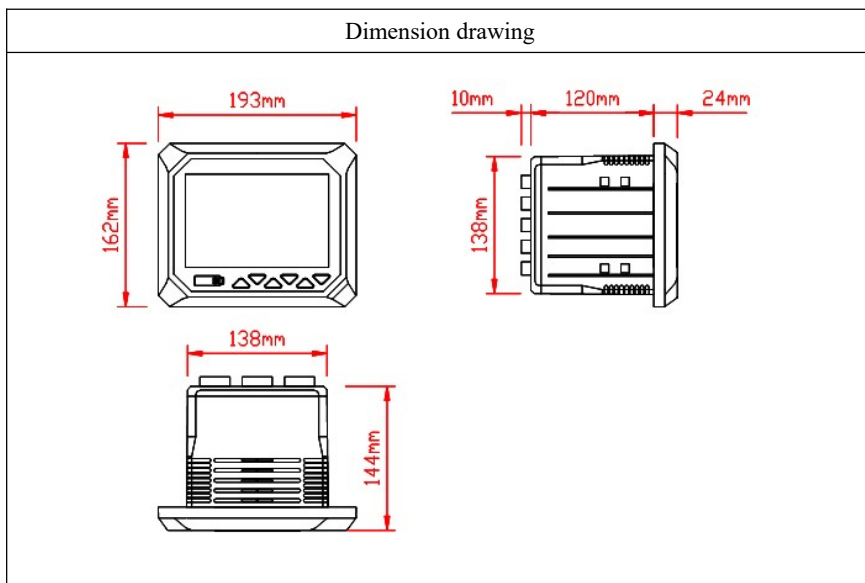
Figure 2-1

2.1

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2.2

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- ┌ : 0~50
- ┌ : 10~85%RH ()
- ┌ :
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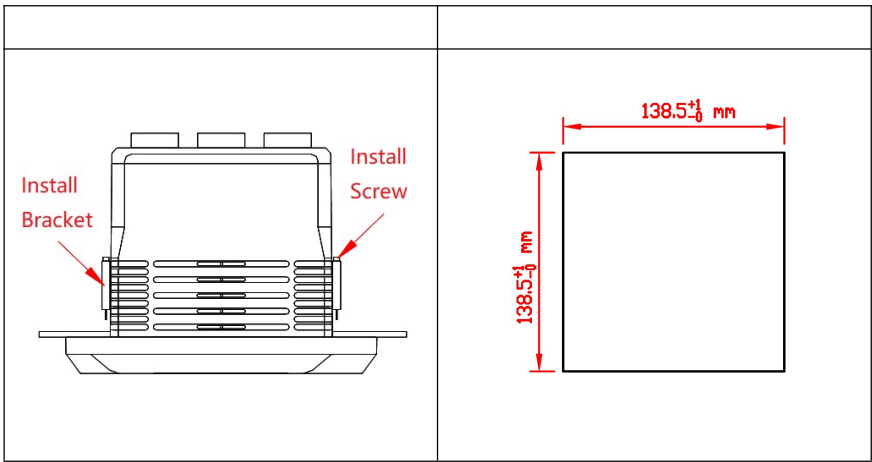


Fig. 2-2 Product Dimension and installation drawing.

2.3

2.3.1

2-3

2-1

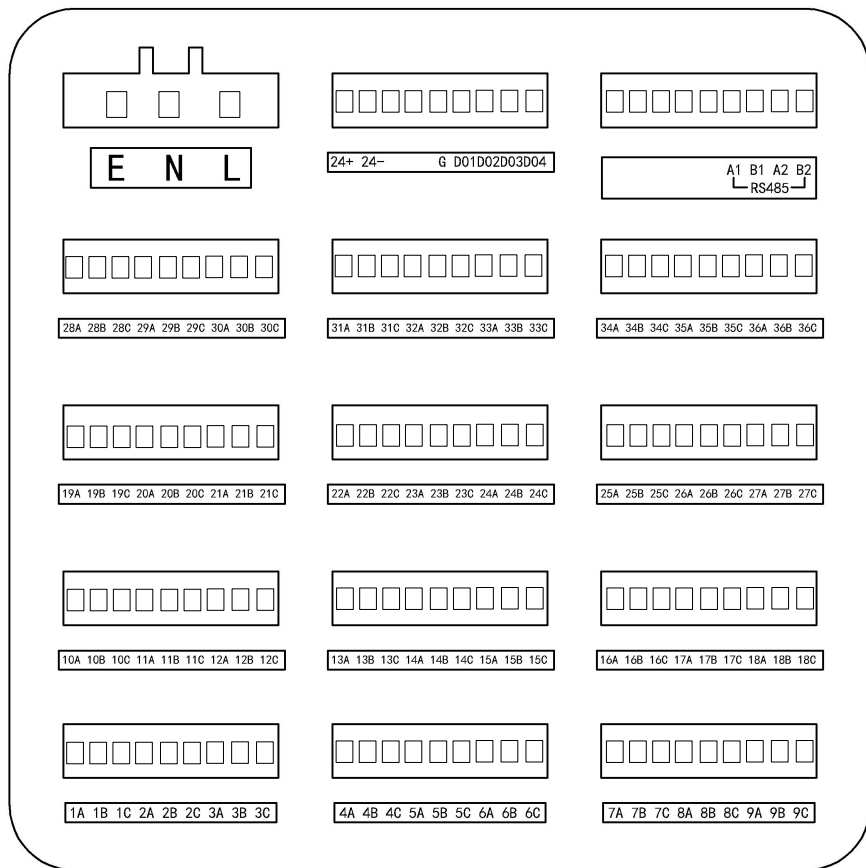



Fig. 2-3 Terminal view

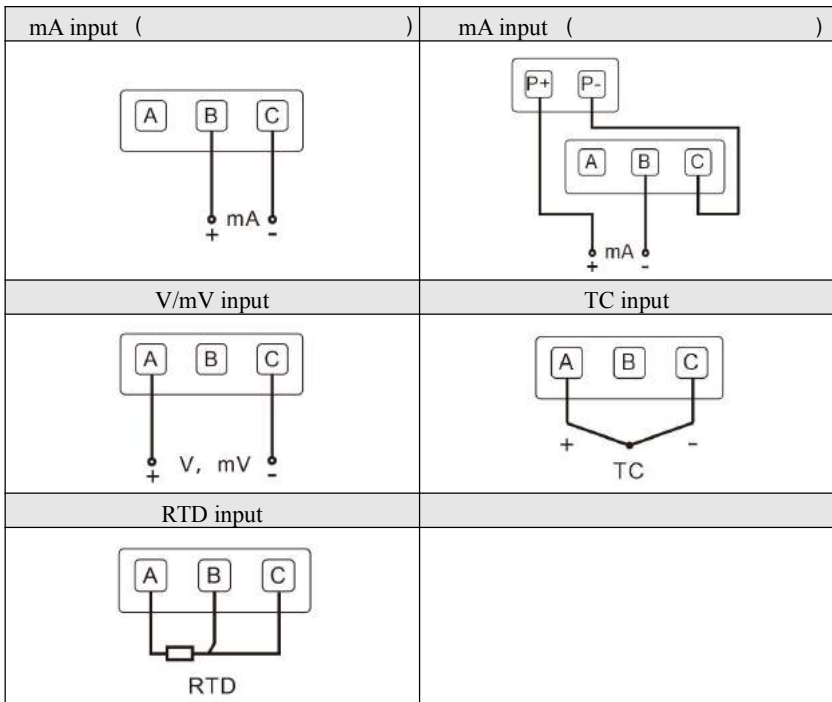
Table 2-1 Specific instructions for each terminal

Terminal sequence number	Signal type	Description
E、N、L	E、N、L	AC : L,N , E: 

Terminal sequence number	Signal type	Description
1A, 1B, 1C	Universal input	1 st path analog input
2A, 2B, 2C	Universal input	2 nd path analog input
3A, 3B, 3C	Universal input	3 rd path analog input
4A, 4B, 4C	Universal input	4 th path analog input
5A, 5B, 5C	Universal input	5 th path analog input
6A, 6B, 6C	Universal input	6 th path analog input
7A, 7B, 7C	Universal input	7 th path analog input
8A, 8B, 8C	Universal input	8 th path analog input
9A, 9B, 9C	Universal input	9 th path analog input
10A, 10B, 10C	Universal input	10 th path analog input
11A, 11B, 11C	Universal input	11 th path analog input
12A, 12B, 12C	Universal input	12 th path analog input
13A, 13B, 13C	Universal input	13 th path analog input
14A, 14B, 14C	Universal input	14 th path analog input
15A, 15B, 15C	Universal input	15 th path analog input
16A, 16B, 16C	Universal input	16 th path analog input
17A, 17B, 17C	Universal input	17 th path analog input
18A, 18B, 18C	Universal input	18 th path analog input
19A, 19B, 19C	Universal input	19 th path analog input
20A, 20B, 20C	Universal input	20 th path analog input
21A, 21B, 21C	Universal input	21 st path analog input
22A, 22B, 22C	Universal input	22 nd path analog input
23A, 23B, 23C	Universal input	23 rd path analog input
24A, 24B, 24C	Universal input	24 th path analog input
25A, 25B, 25C	Universal input	25 th path analog input
26A, 26B, 26C	Universal input	26 th path analog input
27A, 27B, 27C	Universal input	27 th path analog input
28A, 28B, 28C	Universal input	28 th path analog input
29A, 29B, 29C	Universal input	29 th path analog input
30A, 30B, 30C	Universal input	30 th path analog input
31A, 31B, 31C	Universal input	31 st path analog input
32A, 32B, 32C	Universal input	32 nd path analog input
33A, 33B, 33C	Universal input	33 rd path analog input
34A, 34B, 34C	Universal input	34 th path analog input
35A, 35B, 35C	Universal input	35 th path analog input
36A, 36B, 36C	Universal input	36 th path analog input

A1(RS-485)	485+	\RS-485 communication interface 1
B1(RS-485)	485-	RS-485 communication interface 1
A2(RS-485)	485+	RS-485 communication interface 2
B2(RS-485)	485-	RS-485 communication interface 2
Relay		
DO1	Relay	Channel 1 of alarm output
DO2	Relay	Channel 2 of alarm output
DO3	Relay	Channel 3 of alarm output
DO4	Relay	Channel 4 of alarm output
G		Alarm common

2.3.2



3.

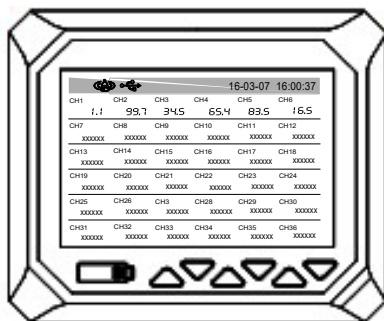


Figure 3-1

3.1

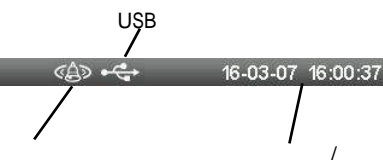
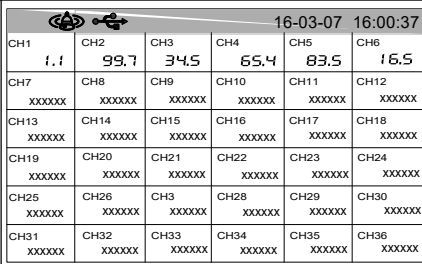
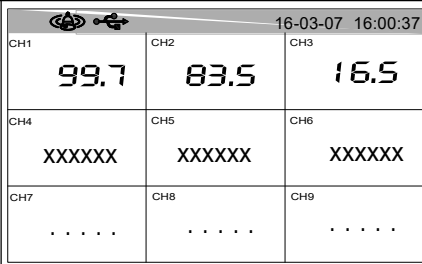
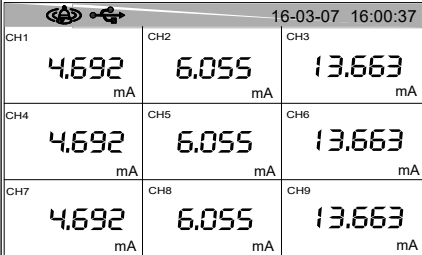
└ LCD :

└ :

Button	Name	Button	Name


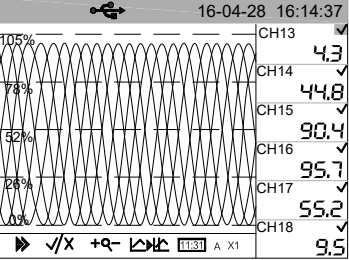
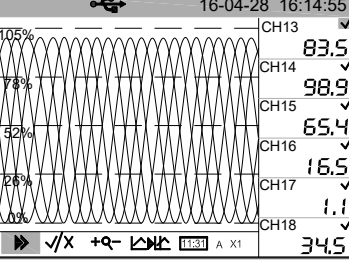
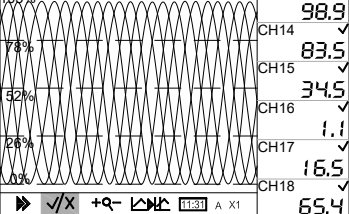
3.2

3.2.1

	<p>* : *USB : USB * / :</p>
	<p>* * "XXXXXX" * "+..." / "-..." V,mV,mA 가 *</p>
	<p>* * *</p>
<p>(mA, V,)</p>	
	<p>* mA, V, * *</p>

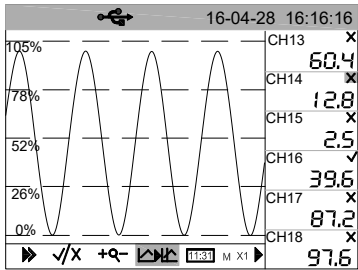
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<p>16-03-07 16:00:37</p> <table border="1"> <thead> <tr> <th>Channel</th> <th>Value</th> </tr> </thead> <tbody> <tr><td>1CH</td><td>75.0</td></tr> <tr><td>2CH</td><td>20.6</td></tr> <tr><td>3CH</td><td>0.3</td></tr> <tr><td>4CH</td><td>29.7</td></tr> <tr><td>5CH</td><td>79.4</td></tr> <tr><td>6CH</td><td>99.7</td></tr> <tr><td>7CH</td><td>29.7</td></tr> <tr><td>8CH</td><td>29.7</td></tr> <tr><td>9CH</td><td>29.7</td></tr> </tbody> </table>	Channel	Value	1CH	75.0	2CH	20.6	3CH	0.3	4CH	29.7	5CH	79.4	6CH	99.7	7CH	29.7	8CH	29.7	9CH	29.7	*	
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Chapter 3 Basic operation method

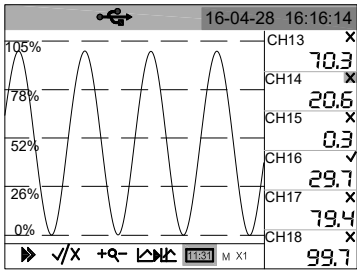
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<p>16-04-28 16:15:51</p> <p>CH13 55.4 CH14 98.9 CH15 83.5 CH16 34.5 CH17 1.1 CH18 16.5</p> <p>11:31 A X2</p>	
<p>x2</p> <p>16-04-28 16:15:23</p> <p>CH13 25.0 CH14 0.0 CH15 25.0 CH16 75.0 CH17 100.0 CH18 75.0</p> <p>11:31 A X4</p>	
<p>x4</p> <p>-3</p>	
<p>16-04-28 16:16:12</p> <p>CH13 79.4 CH14 29.7 CH15 0.3 CH16 20.6 CH17 70.3 CH18 99.7</p> <p>11:31 A X1</p>	<p>*</p> <p>*</p> <p>*</p>
<p>Manual mode prompt "A"</p> <p>16-04-28 16:16:16</p> <p>CH13 60.4 CH14 12.8 CH15 2.5 CH16 39.6 CH17 87.2 CH18 97.6</p> <p>11:31 M X1</p>	<p>Manual mode prompt "M"</p>

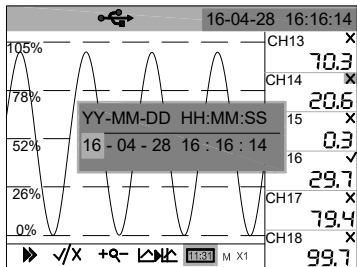
-4



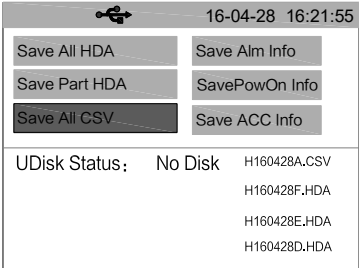
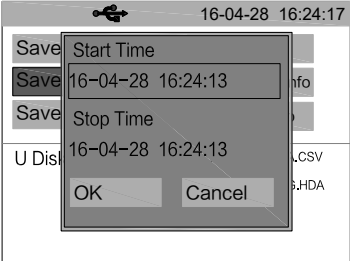
-5



OK



OK

(USB)	
	USB가 USB Save ALL HDA : Save Part HDA : Save all CSV : CSV Save alm info : Save Power info :
(USB)	
	HDA

USB - (: DEVICE01)

File	Subdirectory	File name
History	/History	H180815A.csv/ H180815A.hda
Cumulative Report	/Info	A180815A.csv
Alarm information	/Info	B180815A.csv
Power-off record	/Info	P180815A.csv
Log record	/Info	L180815A.csv

가 H,A,B,P,L

6


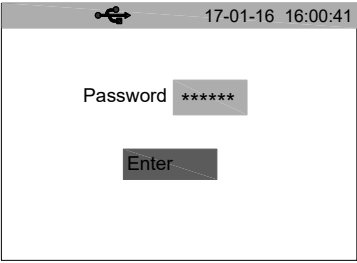
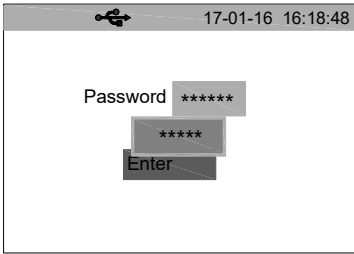
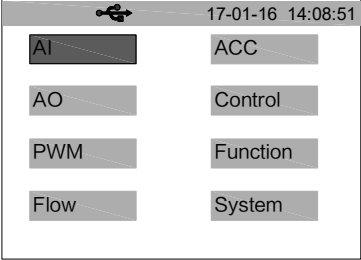
A~Z

USB가

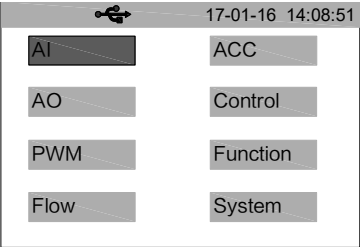
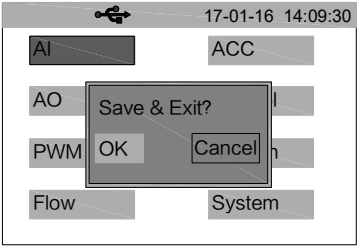
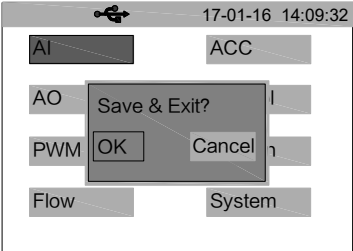
2

가

3.2.2

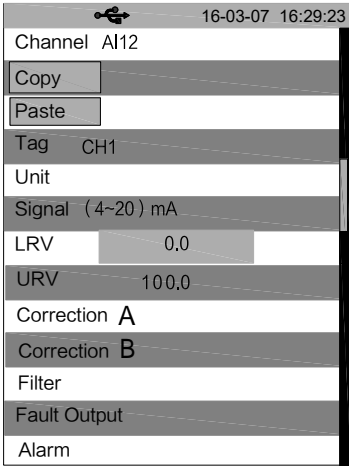
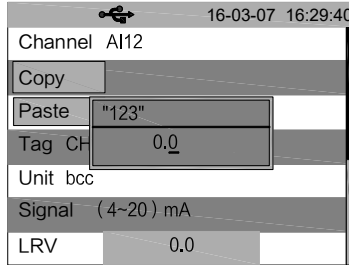
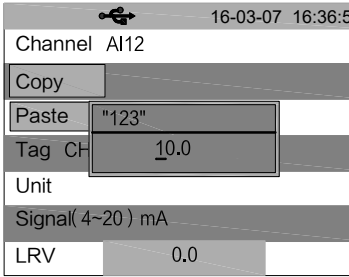
<p style="text-align: center;">-1</p> 	<p style="text-align: center;">* 2</p>
<p style="text-align: center;">-2</p> 	<p style="text-align: center;">/ Enter "000000"</p>
<p style="text-align: center;">-3</p> 	
<p style="text-align: center;">-4</p> 	

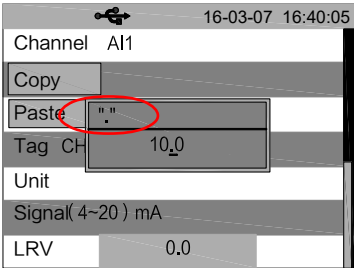
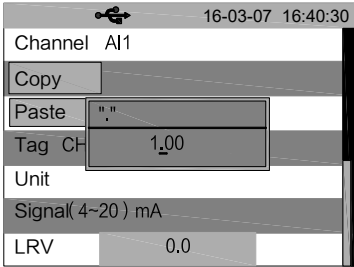
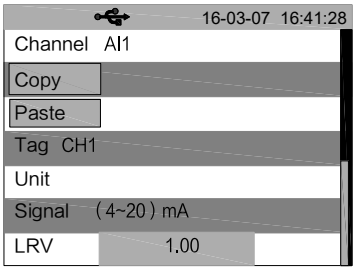
3.2.3

	
	
	<p>"OK" OK</p> <p>"Cancel" 가</p> <p> OK</p>

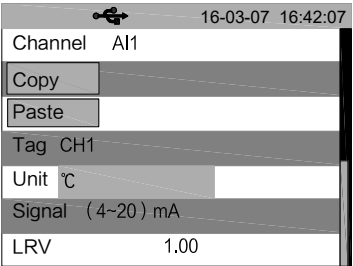
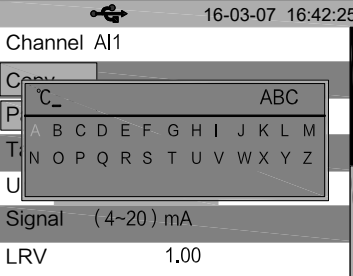
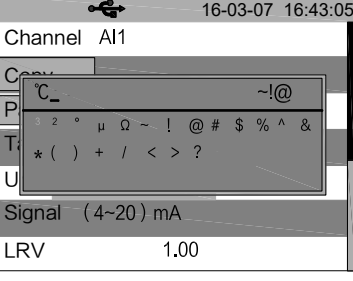
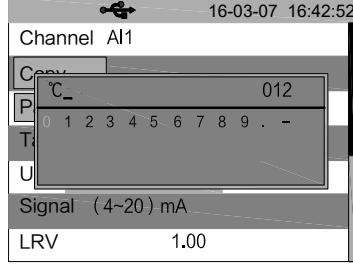
3.2.4

Input (AI)

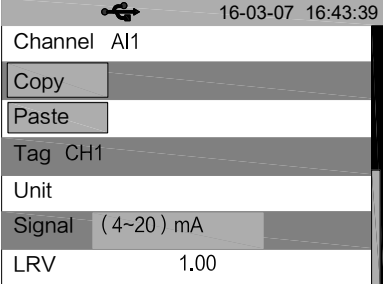
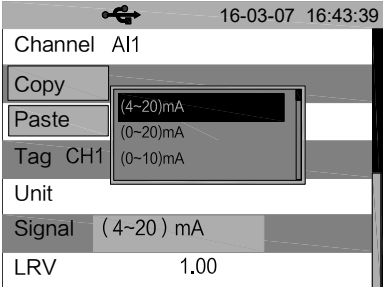
	<p>* /</p> <p>Channel : Copy : Paste : Tag : Unit : Signal : LRV : URV : Correction A : (Factor) Correction B : (Offset) Filter : Fault Output : Alarm :</p>
	<p>* "OK"</p>
	<p>* / /</p>

 <p>16-03-07 16:40:05</p> <p>Channel AI1</p> <p>Copy</p> <p>Paste " ."</p> <p>Tag CH 10.0</p> <p>Unit</p> <p>Signal(4~20) mA</p> <p>LRV 0.0</p>	<p>"OK"</p> <p>" ."</p>
 <p>16-03-07 16:40:30</p> <p>Channel AI1</p> <p>Copy</p> <p>Paste " ."</p> <p>Tag CH 1.00</p> <p>Unit</p> <p>Signal(4~20) mA</p> <p>LRV 0.0</p>	<p>/</p>
 <p>16-03-07 16:41:28</p> <p>Channel AI1</p> <p>Copy</p> <p>Paste</p> <p>Tag CH1</p> <p>Unit</p> <p>Signal (4~20) mA</p> <p>LRV 1.00</p>	<p>"OK"</p> <p>" ."</p>

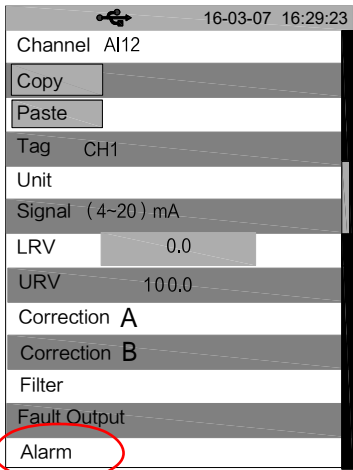
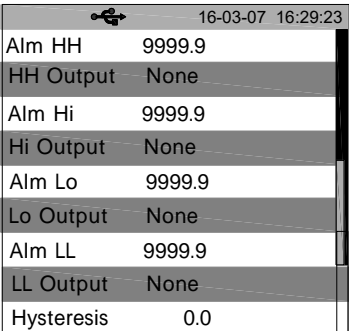
Input

	<p>"Unit" "OK"</p>
	<p>" " (, , ,)</p>
	
	<p>/ "OK" " "</p>

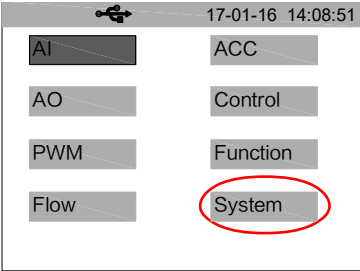

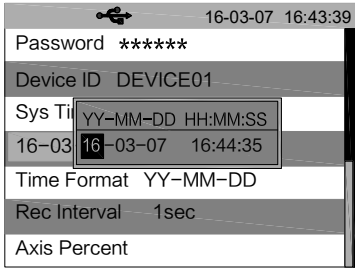
Input

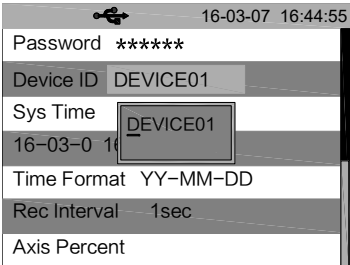
	<p>"Signal"</p> <p>"OK"</p>
	<p>/</p> <p>"OK"</p>

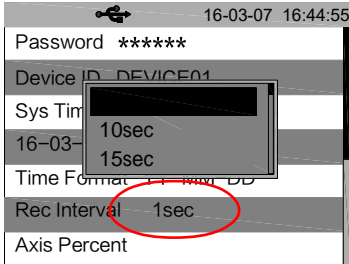
Alarm

 <p>16-03-07 16:29:23</p> <p>Channel AI12</p> <p>Copy</p> <p>Paste</p> <p>Tag CH1</p> <p>Unit</p> <p>Signal (4~20) mA</p> <p>LRV 0.0</p> <p>URV 100.0</p> <p>Correction A</p> <p>Correction B</p> <p>Filter</p> <p>Fault Output</p> <p>Alarm</p>	<p>"Alram"</p> <p>"OK"</p>
 <p>16-03-07 16:29:23</p> <p>Alm HH 9999.9</p> <p>HH Output None</p> <p>Alm Hi 9999.9</p> <p>Hi Output None</p> <p>Alm Lo 9999.9</p> <p>Lo Output None</p> <p>Alm LL 9999.9</p> <p>LL Output None</p> <p>Hysteresis 0.0</p>	<p>Alm HH : 2</p> <p>HH Output : 1~4</p> <p>Alm Hi : 1</p> <p>Hi Output : 1~4</p> <p>Alm Lo : 1</p> <p>Lo Output : 1~4</p> <p>Alm LL : 2</p> <p>LL Output : 1~4</p> <p>Hysteresis :</p>

/

 <p>17-01-16 14:08:51</p> <p>AI ACC</p> <p>AO Control</p> <p>PWM Function</p> <p>Flow System</p>	<p>"System"</p>
 <p>16-03-07 16:29:23</p> <p>Password *****</p> <p>Device ID DEVICE01</p> <p>Sys Time</p> <p>16-03-07 16:29:23</p> <p>Time Format yymmdd</p> <p>Rec Interval 10sec</p> <p>Axis Engineer</p> <p>Language English</p> <p>Default Pic All Datas</p> <p>Group Circle 0sec</p> <p>Atmosphere 0.10132</p> <p>Factory reset</p>	<p>Password :</p> <p>Device ID :</p> <p>Sys time : /</p> <p>Time format :</p> <p>Rec Interval :</p> <p>Y : ,</p> <p>Language :</p> <p>Default Pic :</p> <p>Group Circle :</p> <p>Atmosphere : (MPa)</p> <p>Factory reset :</p>
 <p>16-03-07 16:43:39</p> <p>Password *****</p> <p>Device ID DEVICE01</p> <p>Sys Time YY-MM-DD HH:MM:SS</p> <p>16-03-07 16-03-07 16:44:35</p> <p>Time Format YY-MM-DD</p> <p>Rec Interval 1sec</p> <p>Axis Percent</p>	<p>"Sys time"</p> <p>"OK"</p> <p>/</p> <p>/</p> <p>/</p>

	<p>"Device ID"</p> <p>"OK"</p> <p>/</p> <p>/</p>
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	<p>"Rec Interval"</p> <p>"OK"</p> <p>/</p> <p>"OK"</p>
---	--

4.

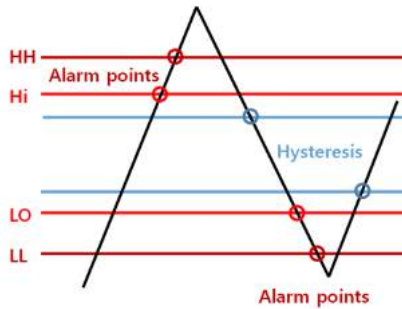
OVERVIEW

4.1

configuration Item	Function Description	Parameter range
		AI1~AI18
		Custom string's length is 8
		Custom string's length is 8
		(4~20) mA、(0~20) mA、(0~10) mA、PT100、Cu50、(1~5) V、(0~10) V、(0~5) V、B、E、J、K、S、T、R、N
		-99999~99999
		-99999~99999
A (Factor)	$Y=AX+B$	-99999~99999
B (Offset)	$Y=AX+B$	-99999~99999
		0s, 1s, 2s, 5s, 10s, 15s
		-99999~99999

configuration Item	Function Description	Parameter range
Alm HH	2	-99999~99999
HH Output	1~4	None、DO1、DO2、DO3、DO4
Alm Hi	1	-99999~99999
Hi Output	1~4	None、DO1、DO2、DO3、DO4
Alm Lo	1	-99999~99999
Lo Output	1~4	None、DO1、DO2、DO3、DO4
Alm LL	2	-99999~99999
LL Output	1~4	None、DO1、DO2、DO3、DO4
Hysteresis		-99999~99999

Note : 가



5.

Modbus address table:

S/N	Parameters	Parameter type	Register start address (decimal base)	Number of register
1	1st path analog input	floating point	1	2registers
2	2nd path analog input	floating point	3	2registers
3	3rd path analog input	floating point	5	2registers
4	4th path analog input	floating point	7	2registers
5	5th path analog input	floating point	9	2registers
6	6th path analog input	floating point	11	2registers
7	7th path analog input	floating point	13	2registers
8	8th path analog input	floating point	15	2registers
9	9th path analog input	floating point	17	2registers
10	10th path analog input	floating point	19	2registers
11	11th path analog input	floating point	21	2registers
12	12th path analog input	floating point	23	2registers
13	13th path analog input	floating point	25	2registers
14	14th path analog input	floating point	27	2registers
15	15th path analog input	floating point	29	2registers
16	16th path analog input	floating point	31	2registers
17	17th path analog input	floating point	33	2registers

18	18th path analog input	floating point	35	2registers
19	19th path analog input	floating point	37	2registers
20	20th path analog input	floating point	39	2registers
21	21st path analog input	floating point	41	2registers
22	22nd path analog input	floating point	43	2registers
23	23rd path analog input	floating point	45	2registers
24	24th path analog input	floating point	47	2registers
25	25th path analog input	floating point	49	2registers
26	26th path analog input	floating point	51	2registers
27	27th path analog input	floating point	53	2registers
28	28th path analog input	floating point	55	2registers
29	29th path analog input	floating point	57	2registers
30	30th path analog input	floating point	59	2registers
31	31st path analog input	floating point	61	2registers
32	32nd path analog input	floating point	63	2registers
33	33rd path analog input	floating point	65	2registers
34	34th path analog input	floating point	67	2registers
35	35th path analog input	floating point	69	2registers
36	36th path analog input	floating point	71	2registers

5.1

Host

configuration Item	Function Description	Parameter range
	Modbus Device Address	1~254
		1200,9600,57600,115200
		No parity, odd parity, even parity
		1234,2143,3412,4321

Communication Example:

Example 1: Real-time value of analog input 2

State :

Explanations : 06 03 00 03 00 02 35 BC

06: instruments address (Configuration can be changed)

03: 03 order to Modbus

00 03: Address 3 of register

00 02: The number of registers is 2

35 BC: CRC Verify

Returned data: 06 03 04 42 C6 6F F5 95 01

Explanations:

06: Instruments address

03: 03 order to Modbus

04: Four bytes of returned date

42 C6 6F F5: Floating point(F4321, configuration can be modified), It represents 100.0

95 01 : CRC Verify



Supmea

Supmea Automation Co.,Ltd.