

ADD FURNACE CO.,LTD.

44 ซอยบรมราชชนนี 70 ถนนบรมราชชนนี แขวงศาลาธรรมสพน์ เขตทวีวัฒนา กรุงเทพ 10170

โทร: 02-888-3472 โทร: ออกแบบ:08-08-170-170 แฟกซ์: 02-888-3258 https://www.add-furnace.com E-mail: <u>sales@add-furnace.com</u>

KR2S SERIES GRAPHIC RECORDER

KR2S series are advance touch screen display (Keyless) paperless Graphic Recorder with high performance and high operating function along with high visibility 5.7" VGA TFT color LCD display.

Universal input with high speed of sampling rate 100msec and high accuracy rating of $\pm 0.1\%$ realized. Measured data is stored into memory and support up to 8GB through USB and CF card. As it can be monitored by a web browser display on several computers on intranet or internet, FTP transfer of data file and E-mail notification are also available.

FEATURES

Employing clear 5.7"VGA TFT color LCD display. Large-sized high visibility display with various display functions. Real time/historical trend screen, circular trend screen, bar-graph screen, data screen are selectable for various applications.

 Large capacity of data memory and various recording method.

USB slot and CF card slot is equipped as standard memory and optionally expandable up to 8 GB. Various data storing methods are selectable such as schedule programming by time of day and time of date, recording start-up by external signal, and event and data logging of before and after trigger points for alarm.

- Multi points recording with high speed/accuracy. High-speed recording of approximately 100msec for 4 points and 1 sec for 6/12 points and high accuracy of ±0.1% were realized. Stable measuring and recording are possible with high speed. With stand voltage between input channels is as high as 1000V AC (Excluding resistance thermometer input).
- Direct writing on the screen.
 With attached touch pen, various comments can be written on the screen.
- Extend inputs with CHINO controllers. KR2S can communicate with up to 16 CHINO controllers for parameter settings and read/record of measuring values through low-order communications (Option).
- Easy operating and programming without manual
- USB port provided in front. Readout of data and files are possible by connecting through an USB memory stick for PC.
- LAN network capability (Option).

Various networked environment such as remote monitoring by browser, FTP, HTTP, SNTP and DHCP server and Email notification are applied when Ethernet communication interface is used.

- Safety system and reliability. No battery backup needed for recorded storage data.
- Analyzing/data acquisition application software (Option).

It is easy to replay and edit the recorded data file. Replay display has various mode of vertical/horizontal trend, circular trend and also has wave-analyzing and marking by using the cursor.

 Custom graphic screen for per each applications (NEW).

By using optional custom graphic screen function, it can display the graphic screen which the user created by PC software KR Screen Designer (option). Create letters, rectangle, oval, line, etc by drawing tool and allocate KR measuring data while making the background by JPEG or other images. By lower communication, controller SV, MV, PID can also be changed. Register up to 5 screens and its screens are switchable.





MODELS

 $\mathsf{K}\,\mathsf{R}\,\mathsf{2}\,\mathsf{S}\,\underline{\square}\,\mathsf{P}\,\mathsf{S}\underline{\square}\,\underline{\square}\underline{-}\underline{\square}\underline{\square}$ Measurement point/sampling rate 6: 6 points/1 sec. 2: 12 points/1 sec. Communication interface (option) N: None E: Ethernet R: Low/high order communications (RS485) G: Ethernet + low/high order communications(RS485) **Alarm output, Contact** input (option) 0: None

- 2: Mechanical relay output (4 points 'c' contact)
- 7: Digital input (4 points)
- 8: Mechanical relay output (2 points 'c' contact)
 - + Digital input (2 points)

Installation type

- A: Device mounting (panel mounting type)
- T: Portable type (Grip and rubber feet attached)

Others (option)

-NNN : None

-1NN : Custom graphic screen

^{*} If the recording cycle is set less than 500ms (100 to 500 ms), input channel point becomes 100ms for 4 points automatically.

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KR2S SERIES

SCREENS

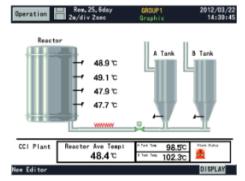
Sharp touch panel display based on Human Engineering such as color, line, thickness, key position. Adopts VGA (640X480) which has 4 times better resolution of conventional model.

Data screen



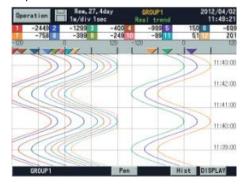
Graphic screen

Enable to create custom display for each user*.

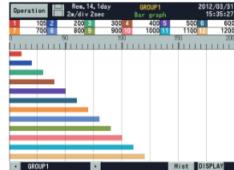


2-Zone screen

Split the trend in 2-zones and monitor.



Bar-graph screen



Pen writing

Free writing by 16 colors.

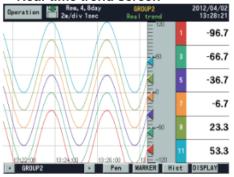


Dual trend screen

2 split display for real time trend and historical trend.

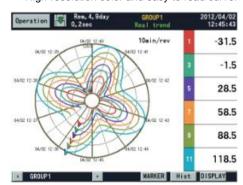


Real-time trend screen



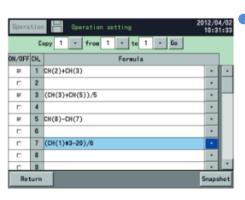
Circular trend screen

High-resolution color and easy to read curve.



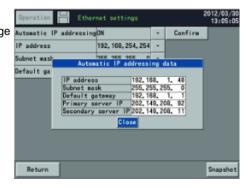
Historical trend screen





Math functions

Easy to set and manage the formula.



Various communication function

Enable to use E-mail, FTP, HTTP, SNTP, and DHCP. (Automatic acquisition IP address)

*Graphic screen feature is provided optionally. BMP image has to be prepared by customer.



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Trend screen:

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■ INPUT SPECIFICATIONS

6 points, 12 points Universal Measuring points:

DC voltage --- ±13.8mV, ±27.6mV, ±69.0mV

±200mV, ±500mV, ±2V ±5V*, ±10V*, ±20V*, ±50V* (*with built-in voltage divider)

DC current --- With external shunt resistor (sold separately) Thermocouple --- B, R, S, K, E, J, T, N, PtRh40-PtRh20,

W-WRe26, WRe5-WRe26, Platinel II, NiMo-

Ni,CR-AuFe, U, L

Resistance thermometer --- Pt100, JPt100, Pt-Co, Pt50 *Contact CHINO for Nickel-100, Pt130, Pt25, Pt46, Cu10, Cu25,

Cu53

Accuracy ratings: Refer to the table of measuring range and accuracy

ratings

Reference junction compensation accuracy:

K, E, J, T, N, Platinel II --- $\pm 0.5^{\circ}$ C or less R, S, W-WRe26, WRe5-WRe26, NiMo-Ni, CR-AuFe.U. L --- ±1.0°C or less

Approximately 1second/12 points, 0.1 second/4 points Sampling rate:

Disconnection of input signal is detected on Burnout:

thermocouple and resistance thermometer input. UP/DOWN/DISABLE is selectable.

Scaling: Range/scale is selectable.

Digital filter: Programming FIR filter for each point (common to

all points)

Allowable signal source resistance:

Thermocouple input (burnout disable)/ DC voltage input ($\pm 2V$ or less) ---1k Ω or less DC voltage input (±5V or more) ---100 Ω or less Resistance thermometer --- Per wire 10Ω or less

Input resistance:

 $\begin{array}{ll} \text{(same resistance for 3 wires)} \\ \text{Thermocouple ---} & \text{Approx. 1 M}\Omega \\ \text{DC voltage input --- \pm2V or less : Approx. 1 M}\Omega \\ & \pm 5\text{V to \pm50V : Approx. 1 M}\Omega \end{array}$

Maximum input voltage:

DC voltage input (±2V or less)/
Thermocouple input (burnout enabled) --- ±10VDC Resistance thermometer input --- ±6VDC
DC voltage input (±5V to ±50V) --- ±60VDC

Dielectric strength between channels:
1000V AC or more between each channel
(High strength semiconductor relay used)
(B terminal of resistance thermometer is shorted inside between channels)

Common mode rejection ratio: 120dB or more (50 or 60Hz) Series mode rejection ratio:
50dB or more (50 or 60Hz

■ RECORDING SPECIFICATIONS

Recording group:

Memory for history: 264MB Additional memory: CF card (Up to 8GB)

256MB standard attached, Apacer Technology made

Recording cycle

Logging data:

256MB standard attached, Apacer Technology made recommended USB memory stick (Up to 8GB)
Not all USB memory stick allowable 100, 200, 500ms 1, 2, 3, 5, 10, 15, 20, 30s 1, 2, 3, 5, 10, 15, 20, 30, 60min
Measured data --- File name (group name), time of day, month and year of recording start, maker text, measured data, alarm status/types
Setting narameter

Storing types: Storing methods:

alarm status/types
Setting parameter
Operation result data
Binary/CSV
Manual start/stop (dedicated touch key operation)
Schedule (designation for time of day and date)
Trigger signal (alarm event, digital input)
*Pre-trigger is selectable
Measuring numbers of pre-trigger --- Maximum 950 data
Recording cycle 1s or slower --- up to 5 groups of 44

Recording cycle 1s or slower --- up to 5 groups of 44 points/group can be programmed (Up to total of 100 points) ded in sempling mode (real data)

When 6 channels rec d in sampling mode (real data)

Recording cycle 256MB 512MB 1GB 2GB 8GB 126 days 253 days When 12 channels recorded in sampling mode (real data). 256MB 63.2 days 8GB 5.6 yrs 1GB 2GB

COMPUTATION SPECIFICATIONS

Computation points: Maximum 44 points Computation types: Arithmetic operations ---

Addition subtraction

Comparison operations ---

Addition, subtraction, multiplication, division, remainder, exponential Equality, inequality, great, less, equality /great, equality / less AND, OR, XOR, NOT

Logical operations ---General functions ---

Round-up, round-down, absolute value, square root, exponent of e

Integration operations ---Channel data operations ---

value, square root, exponent of e, natural logarithm, common logarithm Analog integration, digital integration Measured data computation, calculated data computation Dew point, relative humidity, F-value Remaining amount of CF card

ALARM SPECIFICATIONS

Delay function:

Setups: Alarm types:

Up to 4 alarms can be programmed per channel
Upper limit, lower limit, differential upper limit, differential lower
limit (deadband is selectable), abnormal data
Setup range of alarm delay --- 1 to 3600 seconds
AND/OR selectable
Refer to option specification

DISPLAY SPECIFICATIONS
Display: 5.7"VGA TFT color LCD VGA (640x480 dots)
Display types: Measured data display (Trend screen, Data screen, Bar-graph screen)
Listodical trend display (simultaneous display with Real-time

Historical trend display (simultaneous display with Real-time

trend is available)

trend is available)
Information display (alarm display, marker list, file list)
Setting screen (alarm, computation, memory, system, maintenance, communication, etc.)

12 colors selectable

12 colors selectable
Display screen--- 5 screens (5 groups)
Display points --- Maximum 44 points/screen
Time axis direction --- Vertical or horizontal
Line width --- 5 step selection
Scale display --- 4 scales
Tag/data display --- Show/hide selectable
Marker display

Marker display Circular trend

Data screen:

Display screen --- 5 screens (5 groups)
Display points --- Maximum 44 points/screen
Display contents --- Measured value, channel/tag, unit, alarm

Bargraph screen: 12 colors selectable

Bargraph screen:

12 colors selectable
Display screen --- 5 screens (5 groups)
Display points --- Maximum 44 points/screen
Display direction --- Vertical or horizontal
Scale display --- 1 scale
Information display: Alarm display (alarm activation/released history display)
Marker list
File list (group data file list display)

File list (group data file list display)

LCD back light:

LCD back light: Auto/manual OFF function
Unit information (Model, serial no., option, etc.)
Brightness -- 4 levels adjustment

*The LCD display may contain some pixels that always or never illuminate, and the brightness of some areas of the display may appear uneven. There are typical LCD performance characteristics and do not constitute malfunctions.

COMMUNICATION FUNCTIONS

Network

E-Mail:

Communication type

. Ethernet (10BASE-T/100BASE-TX)

FTP server: FTP client

SNTP client Web server

Ethernet (10BASE-1/100BASE-1X)
Data file can be read from the network computer
Transfer a data file to a network server
The time can be synchronized to the time of SNTP server
Conformed to HTTP1.0 -- Displays the alarm, information of
maintenance by browser software (Internet Explorer5.0 or later,
Netscape6.0 or later, Opera7 or later)
'User's ID and password registration available
E-Mail notification at specified time for alarm activation

Report data at specified time is selectable from all registered

Notification address --- Maximum 8 contacts Automatic IP address acquisition

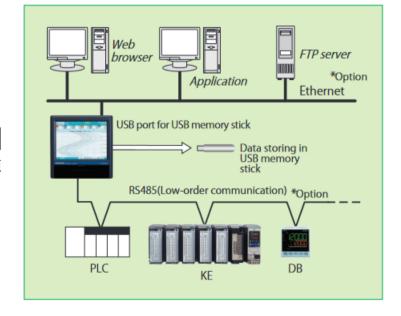
DHCP client: •USB Communications

USB:

Communication type --- USB1.1 Transfer systems --- Bulk transfer, control transfer File transfer by connecting as removable disk drive



CONNECTIVITY





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KR2S SERIES

PROGRAMMING/OPERATION SPECIFICATIONS

HOME settings: Simple recording settings --- Common setting to all channels Parameter programming for all channels together, recording cycle, selection settings

MENU settings: Input/computation programming --- Input parameter,

computation parameter
DISP settings --- Data channel parameter, group parameter,
common parameter (combination display, trend

vertical/horizontal)

vertical/horizontal)
Alarm settings
File settings (5 individual files) --- Storing method settings
Marker text settings
System settings --- Communication, clock, maintenance, key lock, password, screen, etc.
Operating screen selection --- Trend, data, bar-graph, historical trend, alarm display, maker list

DISP operations:

maker list

Display selection on each screen --- Group 1 to 5 selectable

GENERAL SPECIFICATIONS

Rated power voltage: 100 to 240V AC (universal power supply) 50/60Hz

Maximum power consumption: 35VA

Reference operating condition:
Ambient temperature --- 21 to 25°C,
Ambient humidity --- 45 to 65%RH
Power voltage --- 100V AC±1.0% Power frequency --- 50/60Hz±0.5% Attitude --- Left/right 0°,forward/backward 0°

Warm-up time --- Longer than 30 minutes

Normal operating condition:

Ambient temperature --- 0 to 50°C

Ambient humidity --- 20 to 80%RH

Power voltage --- 90 to 264V AC Power voltage --- 90 to 264V AC
Power frequency --- 50/60Hz±2%
Attitude --- left/right 0°, forward tilting 0°,
Backward tilting 0°to 20°

Transport condition (at the packed condition on shipment from our factory):
Ambient temperature --- -20 to 60°C
Ambient humidity --- 5 to 90%RH (No dew condensation)
Vibration --- 10 to 60Hz 0.5G (4.9m/S²) or less
Impact --- 40G (392m/S²) or less
Storage condition: Ambient temperature --- -20 to 60°C
Ambient humidity --- 5 to 90%RH (No dew condensation)
Power failure protection:
Flash memory and SDRAM stores the setting.

Flash memory and SDRAM stores the setting.
Flash memory stores the data.
Lithium battery back up the clock and parameter
RAM for more than 5 years (provided that the daily operating hours is longer than 8hours).
ce: Secondary terminals and protective conductor terminals ---

Insulation resistance:

20MΩ or more at 500V DC

Primary terminals and protective conductor terminals --- $20M\Omega$ or more at 500V DC

Primary and secondary terminals --- $20 M\Omega$ or more at 500V DC

Primary terminals: power terminals (L,N), alarm output

terminals Secondary terminals: measuring input terminals, digital input terminals, communications terminals

Secondary terminals and protective conductor terminals --1 minute at 500V AC Dielectric strenath:

Primary terminals and protective conductor terminals --1 minute at 1500V AC Primary and secondary terminals --- 1 minute at 2300V AC

Primary terminals: power terminals (L,N), alarm output

terminals

Secondary terminals: measuring input terminals, digital input terminals, communications terminals

Case assembly material:

Front bezel --- ABS resin

Case --- Painting color, gray (equivalent to Munsell N3.0)
Case --- Painting color, gray (equivalent to Munsell N7.0)
2.1kg (12 points input with full options) Color: Weight:

Mounting: Panel mounting Terminal screws:

Power terminals/protective conductor terminals/communications terminals --- M4.0

Measuring input terminals/alarm output terminals/digital input terminals --- M3.5

Communications terminals --- M3.0

STANDARDS

EMC directive ---EN61326-1

Class A

Low voltage directive --- EN61010-1, EN61010-2-030 Conformed to IEC60529 IP54 (recorder front bezel) Protection:

Options		Specifications		
·	Mechanical relay input error.	Mechanical relay (c contact) output for alarm activation and		
Alarm output	Output point: 4 or 2 points Contact capacity: resistive load 3A, inductive load 1.5A			
	ON/OFF signal	ON/OFF input recording		
Digital input	Pulse input	Maximum 10Hz pulse input Used for flow rate, operation time and frequen		
(Non-voltage				
contact input/ 4 or 2 points)	External drive	The following operations are available (selectable by parameter)		
, , ,		Data memory triggering		
		Marker display		
		Integrated calculation reset		
		Communications interface for high and		
		low-order unit RS485 (MODBUS)		
		Choose one function from the following 3		
		functions.		
		Communication interface for high-order un		
		Recording input data of CHINO products connected to a low-order unit and data in		
		PLC register.		
		Display and record parameter setting,		
		measured value, setting value, etc. of up to		
		16 CHINO controllers. Recording points:		
		6-channel specification – 34 points		
		12-channel specification – 28 point		
Communications	High and	Connectable models: KE, KR2S, KR3S, KR2000, KR3000,		
	low-order	LE5000, AL3000,		
interface	communication	AL4000, AH3000, AH4000,		
		DB1000, 2000,		
		LT230, 830, 350, 370		
		450, 470,		
		KP1000, KP2000, DP-G		
		(data collection only)		
		JU, JW, SE3000		
		Transfer input data of KR2S to PLC.		
		The input data can be written on PLC only Data writing points: 44 points		
		Connectable PLC: Mitsubishi Electric		
		Corporation		
		MELSEC AnA, QnA, QnAS, FX series		
		OMRON Corporation		
		SYSMAC series		
		Note) Separate purchase of protocol convert		
		SC8-10 (optional) is required for		
	D. KD C	connection to OMRON PLC.		
Custom Cronkin	By KR Screen D	By KR Screen Designer (optional), create graphic screen by		
Custom Graphic	PC and display to KR screen via CF card. KR measuring value			
Screen	value			
	can be located to the screen.			
	can be recated to			

ACCESSORIES (SOLD SEPARATELY)

Name	Description	
Resistor for DC current input 100Ω	For 50mA	
Resistor for DC current input 250Ω	For 20mA	
CF card	128MB, 256MB, 512MB,	
CF cald	1GB, 2GB, 4GB, 8GB	
Card adapter	For PC card	

KR SCREEN DESIGNER (sold separately) (NEW)



Model: KS3200-000 OS: Windows Vista/7/8 Others: Your OS recommended requirements or better



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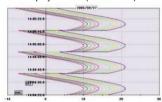
MEASURING RANGES						
	Input type	Measuring range			Accuracy ratings	
		-13.80	to	13.80mV		
		-27.60 -69.00	to to	27.60mV 69.00mV		
	DC voltage	-09.00	ıo	09.00111		
	_	-200.0	to	200.0mV		
		-500.0 -2.000	to	500.0mV 2.000V	±0.1%±1digit	
		-2.000) 10	2.000 V	±0.176±Tulgit	
		-5.000	to	5.000V		
	(with built-in	-10.00	to	10.00V		
	voltage divider)	-20.00	to	20.00V		
		-50.00	to	50.00V		
	K	-200.0 -200.0	to to	300.0°C 600.0°C		
		-200	to	1370°C		
		-200.0	to	200.0°C		
	Е	-200.0	to	350.0°C	±0.1%±1digit	
		-200	to	900°C	*-200 to 0°C:	
	J	-200.0 -200.0	to to	250.0°C 500.0°C	±0.2%±1digit	
	J	-200	to	1200°C		
		-200.0	to	250.0°C		
	Т	200.0	4	400.0°C		
		-200.0 0	to to	400.0°C 1200°C	±0.1%±1digit	
	R	U	ıo		-	
		0	to	1760°C	*0 to 400°C:	
	S	0	to	1300°C	±0.2%±1digit	
	3	0	to	1760°C		
					±0.1%±1digit	
	В	0	to	1820°C	*0 to 400°C:Out of accuracy ratings	
	ь	U	ıo	1020 0	*400 to 800°C:	
					0.15%±1digit	
		-200.0	to	400.0°C	±0.15%±1digit	
	N	-200.0 -200	to to	750.0°C 1300°C	*-200 to 0°C: ±0.3%±1digit	
		-200	10	1000 0	±0.15%±1digit	
					*0 to 100°C:	
T/C	W-WRe26	0	to	2315°C	±4%±1digit	
					*100 to 400°C:	
					±0.5%±1digit	
	WRe5-WRe26	0	to	2315°C	±0.2%±1digit	
					Ü	
					±0.2%±1digit	
	PtRh40-PtRh20	0	to	1999°C	*0 to 300°C: ±1.5%±1digit	
	PIRN40-PIRN20	0	to	1888℃	*300 to 800°C:	
					±0.8%±1digit	
		-50.0	to	290.0°C	, , , , , , , , , , , , , , , , , , ,	
	NiMo-Ni	-50.0	to	600.0°C	±0.2%±1digit	
		-50	to	1310°C		
					±0.2%±1digit	
	CR-AuFe	0.0	to	280.0K	*0 to 20K: ±0.5%±1digit	
	CR-Aure	0.0	ιο	200.UK	*20 to 50K:	
					±0.3%±1digit	
		0.0	to	350.0°C	.	
	Platinel II	0.0	to	650.0°C	±0.15%±1digit	
		0	to	1395℃		
		-200.0	to	250.0°C	±0.15%±1digit *-200 to 0°C:	
	U	-200.0	to to	500.0°C 600.0°C	±0.3%±1digit	
		-200.0 -200.0	to	250.0°C	±0.1%±1digit	
	L	-200.0	to	500.0°C	*-200 to 0°C:	
		-200	to	900°C	±0.2%±1digit	
					±0.1%±1digit	
		-140.0	to	150.0℃	*-140.0 to 150.0°C	
	Pt100	-200.0	to	300.0°C		
		200.0	+-	9E0 0°0	700 to 850°C:	
		-200.0	to	850.0°C	±0.15%±1digit	
		-140.0	to	150.0°C	±0.1%±1digit	
RTD	JPt100	-200.0	to	300.0°C	*-140.0 to 150.0°C:	
		-200.0	to	649.0°C	±0.15%±1digit	
	Pt50	-200.0	to	649.0°C	±0.1%±1digit	
					±0.15%±1digit	
	Pt-Co	4.0	to	374.0K	*4 to 50K:	
					±0.3%±1digit	

■ APPLICATION SOFTWARE ZAILA (sold separately)

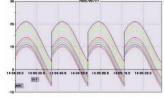
The software is applied for replay display/wave editing operation of recorded data in KR2S series. It has replay display of vertical/horizontal trend and circular trend function, and also analyzing function such as magnify/reduce/partially magnify of graphs and message insert.

Display examples

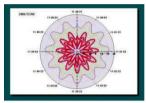
Trend display window (vertical flow)

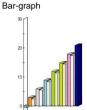


Trend display window (horizontal flow)



Trend display window (circular trend)





Main functions

■Trend display

Selectable from trend display window (vertical flow, horizontal flow) and circular trend display window

■Continuous replay display window

Trend is scrolled continuously (automatically). Scroll changes by speed and renewal data no.

■Data list display window

Displays registered data as list display.

■Bar-graph

Displays by bar. Message can be inserted into bar-graph.

■Data between markers

Displays date/time, time difference between 2 data, data difference, maximum, minimum, average, standard deviation and median among all data

■Alarm display

Points for alarm activation at each level are displayed on a trend graph.

■Settings

Cursor, trend line, scale axis, time axis, title input on the graph, graph assistant and magnify/reduce/rotation of graphs

■Data conversion

Exporting to Excel, and converting to CSV file or TEXT file are available.

ENVIRONMENT

CPU	Your OS recommended CPU and/or upper grade	
OS	Windows XP Home / XP Pro / VISTA / 7 *Internet Explorer 4.0 or later	
Memory	Your OS recommended memory or larger	
Disk drive	CD-ROM drive: 1 drive or more Hard disk drive: Disk space of 1 drive or more for 100MB or more	
Language	Japanese, English, Chinese (simplified and traditional characters), Korean	

Note: The accuracy ratings are converted into the measuring range under reference operating condition. Thermocouple input does not contain reference junction compensation accuracy.
K,E,J,T,R,S,B,N:IEC584,JIS C1602-1995
W-WRe26,WRe5-WRe26,PtRh40-PtRh20,Platinel II ,NiMo-Ni,
Cr-AuFe:ASTM Vol14.03
U(Cu-CuNi),L(Fe-CuNi):DIN43710
Pt100:IEC751(1995),JIS C1604-1997

JPt100:JIS C1606-1989



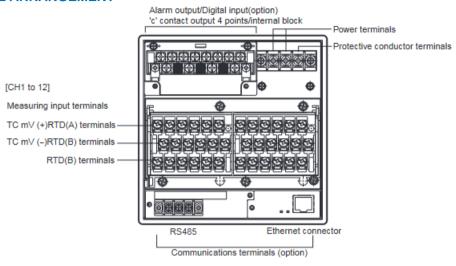
ADD FURNACE CO.,LTD.

44 ซอยบรมราชชนนี 70 ถนนบรมราชชนนี แขวงศาลาธรรมสพน์ เขตทวีวัฒนา กรุงเทพฯ 10170

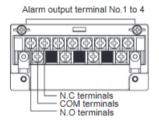
โทร: 02-888-3472 โทร: ออกแบบ:08-08-170-170 แฟกซ์: 02-888-3258 https://www.add-furnace.com E-mail: <u>sales@add-furnace.com</u>

TERMINAL ARRANGEMENT

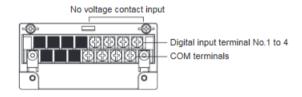
PERFORMANCE SPECIFICATION



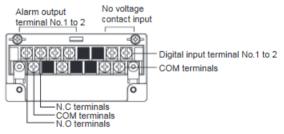
Alarm relay output (4 points 'c' contact)



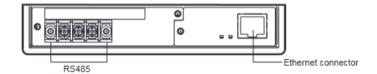
Digital input (No voltage contact input 4 points)



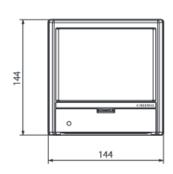
Alarm relay output (2 points 'c' contact) + Digital input (No voltage contact input 2 points)

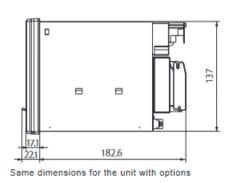


Communication terminal



DIMENSIONS





200

138 ⁺¹

Unit: mm

PANEL CUTOUT