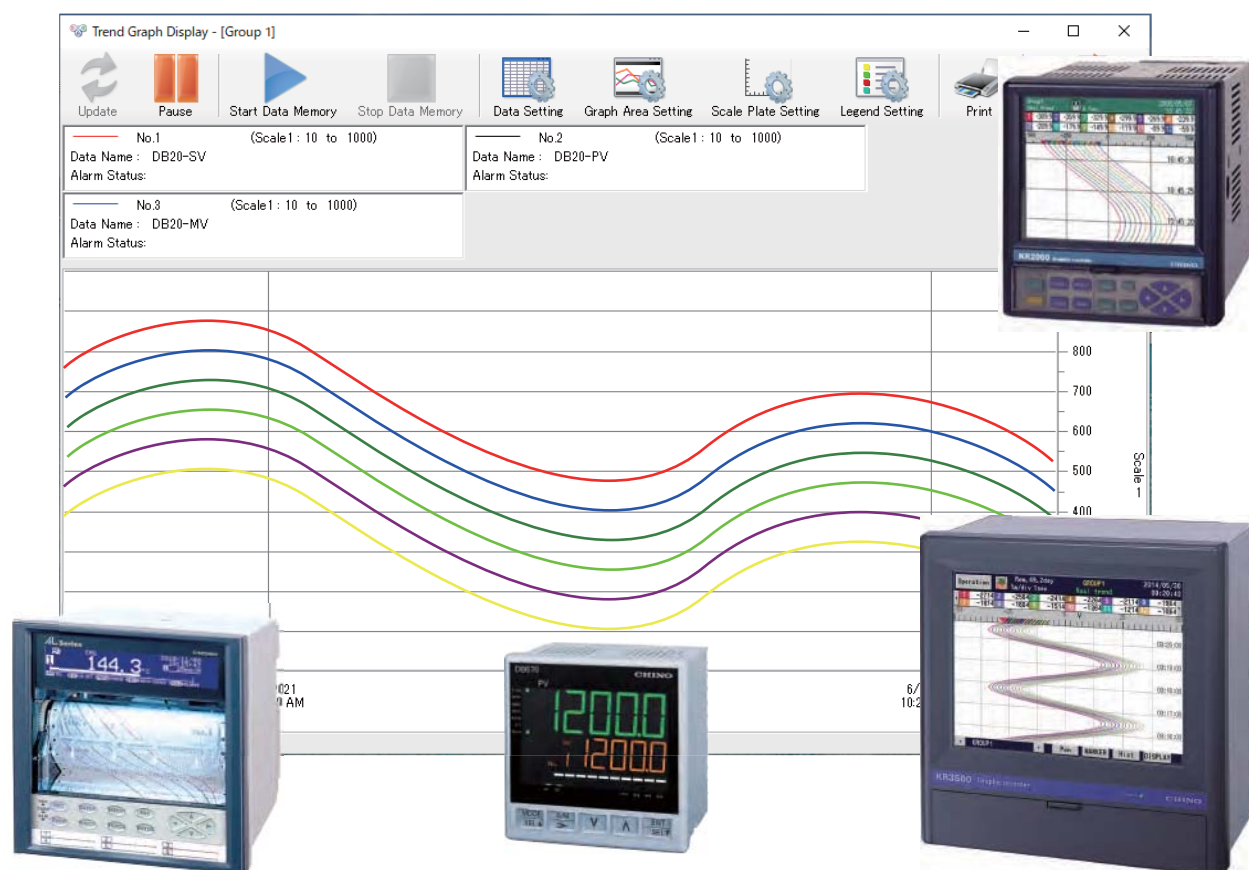# Integrated Package Software
TRAMS IV

Easy parameter set up of recorder, controllers, and indicators!

Max. 100 points of data acquisition, data replay and analysis are available.

NEW

Integrated package software TRAMS IV is software to set parameters of CHINO recorders, controllers, and indicators, and acquire and analyze measured data.

■FEATURES

- **Easy set up of various parameters**
- **Max. 100 points of data acquisition and monitoring**
- **Recorders, controllers, and indicators can be connected at the same time**
- **Support Ethernet, serial communication, and USB (only when connected by engineering cable)**
- **Data analysis function is available**
- **Report output using Excel sheet**

CHINO

Easy parameter setting, data acquisition, and monitoring are available on PC.

● Introduction of the parameter set up, data analysis,
and monitoring can be done easily by combining CHINO devices, TRAMS, and PC.

SOFTWARE CONFIGURATION

Parameter setting
- Parameter setting from a registered device (online)
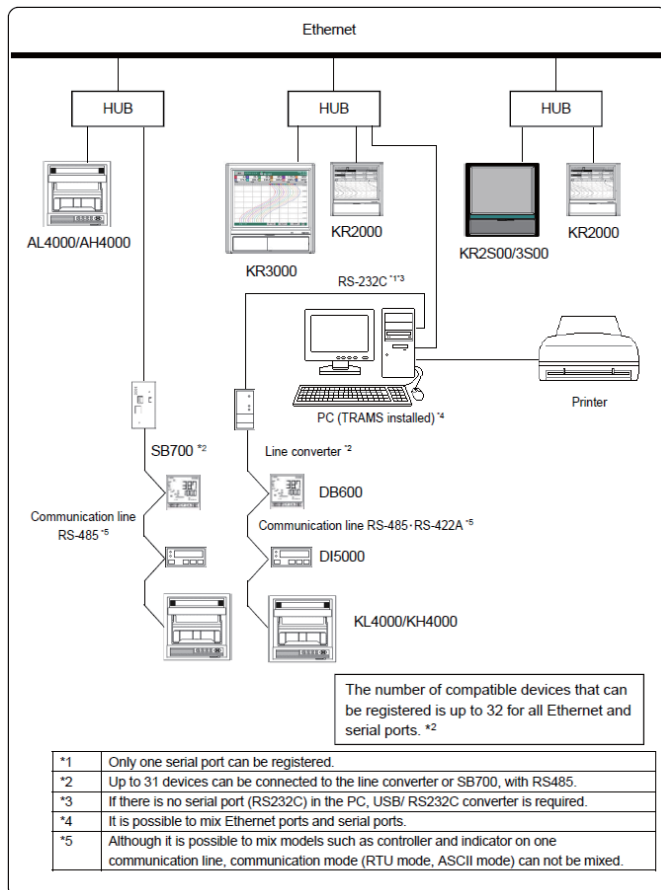- Parameter setting from a file
- Parameter setting from device selections
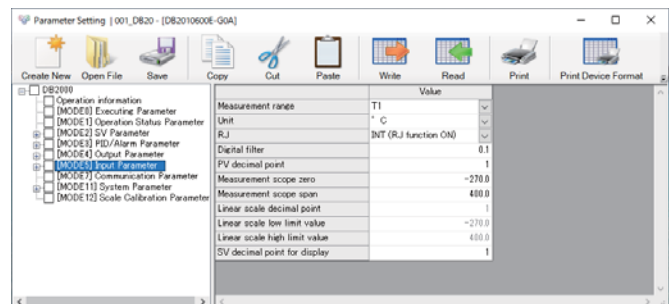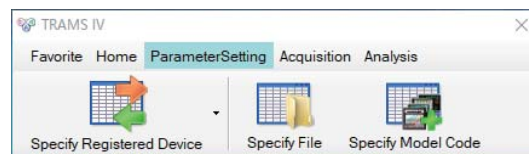
Data acquistion
- Register, edit, and delete acquired data and groups
- Data memory setting / operation
- Trand graph setting / display
- Real time data (Data list)
- Alarm display

Data analysis
- Analysis file operation
- Trend graph replay
- Data list replay
- Report output (daily / monthly)

CONNECTIVITY

Ethernet

HUB   HUB   HUB

AL4000/AH4000
KR3000
KR2000
KR2S00/3S00
KR2000

RS-232C *1*3

PC (TRAMS installed) *4

Printer

SB700 *2
Line converter *2

Communication line RS-485 *5
DB600

Communication line RS-485・RS-422A *5
DI5000

KL4000/KH4000

The number of compatible devices that can be registered is up to 32 for all Ethernet and serial ports. *2

| *1	Only one serial port can be registered.
*2	Up to 31 devices can be connected to the line converter or SB700, with RS485.
*3	If there is no serial port (RS232C) in the PC, USB/ RS232C converter is required.
*4	It is possible to mix Ethernet ports and serial ports.
*5	Although it is possible to mix models such as controller and indicator on one communication line, communication mode (RTU mode, ASCII mode) can not be mixed.

PARAMETER SETTINGS

Open a parameter setting window from an application launcher. The parameter setting provides loading and editing of parameters from devices through online, or editing and saving a parameter file off-line then reflect the setting to a device afterward.
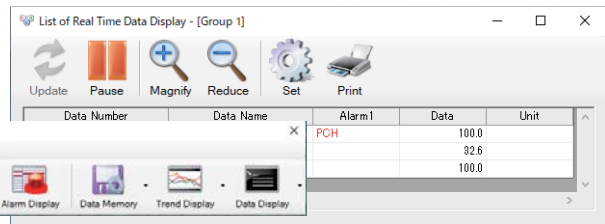
DATA ACQUISITION

Open a data acquisition from the application launcher. Controlling data memory (file save), and displaying real time trend (graph display) and real time data (numeric value display) can be done from the data acquisition window.
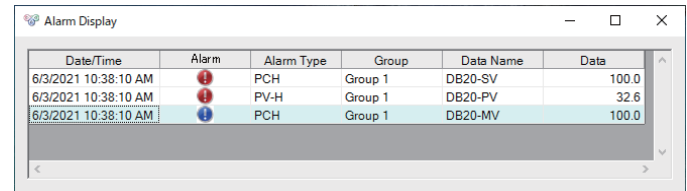
Trend graph
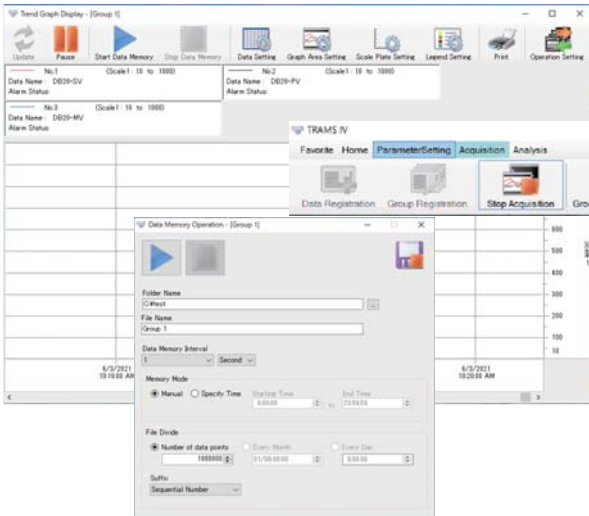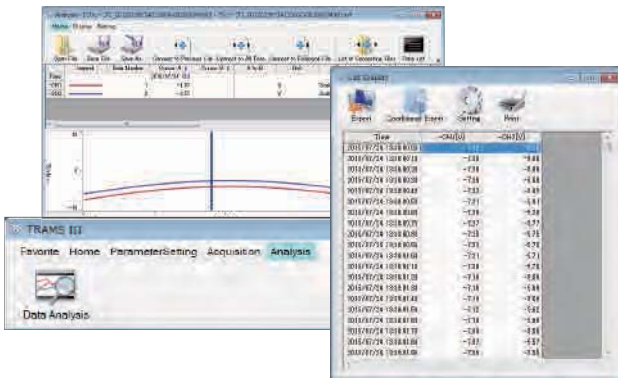

Real time data

Data memory

Alarm display

DATA ANALYSIS

Open a data analysis from the application launcher. On the data analysis, acquisition data files recorded by TRAMS and connecting devices, and analysis file saved by the data analysis function can be unfold and displayed.

Trend graph reply

Monthly report output

Data list reply

Daily report output

OPERATION ENVIRONMENT

●Execution environment

Preparation		Contents and Conditions
PC	CPU	1GHz or more 32-bit or 64-bit
	Memory	1GB or more (32-bit), 2GB or more (64-bit)
	Hard disc capacity	2GB or more hard disc free space
	Removal disc drive (optional)	For KR2000, KR3000, KR2S00, KR3S00, LE5100, and LE5200, data saved in CF card can be loaded. For AL4000 and AH4000, data saved in SD card can be loaded.
	Operating OS	Windows 7 (32-bit/64-bit)
		Windows 8.1 (32-bit/64-bit)
		Windows 10 (32-bit/64-bit)
		*.NET Framework4.0 and later should be able to be installed to the above OS.
Install		.NET Framework4.0
		Microsoft Excel 2007/2010/2013/2016 *If it is not installed, output function of daily and monthly report, and data list are restricted.
Display		Display resolution 1024x768 or more

OPERATION ENVIRONMENT

● Communication with connected device, data acquisition, and parameter setting

Device	Model	Serial communication	Ethernet	USB	Parameter setting (readable file)	Data able to be acquired	Data analysis (readable file)
Controller	DB630	M	△ ※10	△ ※1	○ Serial communication or USB (pasconf)	Setting value Indicated value Output value	○ (dmf / zil)
	DB650 DB670	M		△ ※2			
	DB1000	M	△ ※10	△ ※1	○ Serial communication or USB (pasconf / pkp)		
	DB2000	M	△ ※10	△ ※1			
	KP1000	M	△ ※10	△ ※1	○ Serial communication or USB (pasconf)		
	KP2000 (KP2500)	M	△ ※10	△ ※1			
	KP3000	M	△ ※10	△ ※1			
	LT23A	M	△ ※10	× ※7	×	SP value PV value MV value	
	LT35A/37A	M	△ ※10	× ※7	×		
	LT45A/47A	M	△ ※10	× ※7	×		
	DP1000G	M	△ ※10	△ ※1	Senal communication or USB (pasconf/ ds/ dp)	Setting value Indicated value Output value Input switch status*(*Only DP2000G)	
	DP2000G						
	DP3000G						
	SB100	Please use the SB setting software.(TRAMS is not supported.)					
Indicator	DI5000	M	△ ※10	△ ※2	○ Serial communication or USB (pasconf)	Measured value Max. value Min.value	○ (dmf / zil)
Recorder	KR2000 KR3000	M	○	× ※3	○ Serial communication or Ethernet (pasconf / krs)	Measured value *4	○ ※5 (dmf / zil / krf)
	KR2S KR3S KR3D	M	○	× ※3	○ Serial communication or Ethernet (pasconf / krs)	Measured value *4	○ ※5 (dmf / zil / krf)
	SC5000	M	○	×	×	Measured value *4	○ ※5 (dmf / zil / krf)
	AL4000 AH4000	M	○	○ ※9	Senal communication, Ehernet or USB (pasdonf/ a4s)	Measured value	○ ※6 (dmf / zil / a4f)
	KL4000 KH4000	M	△ ※10	○ ※9	Senal communication or USB(pasdonf)	Measured value	○ (dmf / zil)
	LE5100 LE5200	M	○	× ※3	×	Measured value	○ ※8 (dmf / zil / l5f)

*1 Parameter setting is only available through an engineering cable (RZ-EC4) with USB connector.
*2 Parameter setting is only available through an engineering cable (RZ-EC4 or RZ-EC5) with USB connector.
*3 USB port is equipped with the device, but it can not be used on TRAMS.
*4 Device data file can be acquired automatically by FTP server function.
*5 krf file can be loaded by data analysis function.
*6 a4f file can be loaded by data analysis function.
*7 The device is equipped with a loader connector, but it can not be used for TRAMS.
*8 l5f file can be loaded by data analysis function.
*9 Acquisition via USB is not available.
*10 Communication through Ethernet is available by using SB700 communication module.

< Note >
• M of serial communication column stands for MODBUS protocol.
• For purchasing a device, check for communication interface to use. (Communication interface may come as an option.)
• Files created by CHINO's software, KIDS and ZAILA are not compatible with this software.
• Setting files (pkp) created by CHINO's software, PASS are only available on DB1000, DB2000, KP1000, KP2000, and KP3000.
  It does not support pkp files created by the other devices.

CHINO