



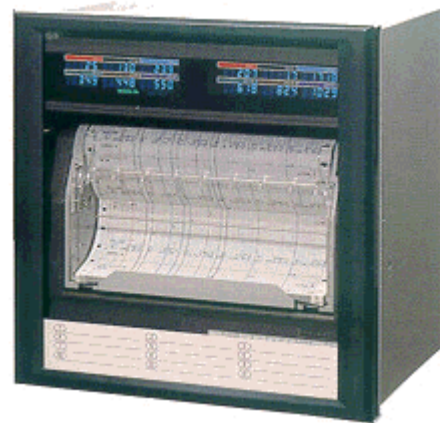
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AH3000 Series

AH3000 series conforming to [CE-marking](#), [UL](#) and [CSA](#) are 180mm multi-point type hybrid recorders with a simultaneous display of multi-channel data, alarm display/printings and other unique features. [A package software "KIDS"](#) for data processing of measured values is available.



Features

- Simultaneous digital displays of multi-point data
Simultaneous digital display of 12 points allows measured data to be viewed at a glance.

- Alarm display/printings
Alarm display(status and channels) and printings(channels, alarm types and alarm numbers)are executed. Up to 4 levels of alarm are programmable for each channel. Optional alarm outputs are available.
- Universal Input
The recorders accept total 54 ranges of 7 DC voltage ranges, 36 thermocouple ranges and 11 resistance thermometer ranges and these ranges can be programmed for each channel.
- CE-making, UL and CSA standards
The recorders manufactured in our suppliers ISO9001 certified facilities conform to the rules of safety standards of CE-marking, UL (approval pending) and CSA (approval pending).
- Package software "KIDS" for data acquisition
The data acquisition software "KIDS" is available for data acquisition with real-time data/trend displays and historical data/trend displays.
- Other features
 - [Universal power supply](#)
100V to 240V AC,50/60HZ
 - [Communications interface](#)
RS232C, RS422A or RS485 (options)
 - [Clear printing](#)
Cassette type wire-dotting system 6-color ink ribbon for clear trending and digital prints.

Specifications

Measuring Points 6 points, 12 points, 24 points
 Input Signals Universal Input
 Range Setup Program input signals and measuring ranges using keys
 Scale Setup Program maximum values, minimum values and engineering units using keys
 Accuracy Rating [Refer to the table of inputs](#)
 Measuring Cycle About 5 seconds/6-point

K,E,J,T,N, Platines.....Maximum $\pm 0.5C$
 Reference Junction R,S, Ni-NiMo, AuFe-Cr, WRe5-26, WRe0-26, U,L..... $\pm 0.1C$
 Compensation Accuracy (The above errors are added to the accuracy ratings for an internal reference junction compensation.)

Burnout With a function to detect input signal disconnection for thermocouple inputs and resistance thermometer inputs Up-scale burnout, down-scale burnout or burnout disabled.

Terminal Board Detachable type, removable on wiring

Printing Interval About 5 seconds/channel

Printing System Wire-dotting system 6 color ribbon

Printings/Colors Trace
 Printing

Channel No.	1,7,13,19	2,8,14,20	3,9,15,21	4,10,16,22	5,11,17,23	6,12,18,24
Colors	Red	Black	Blue	Green	Brown	Purple

Chart

Fan-fold type

Effective width	Total width	Total length
180mm	200mm	20m

Chart Speed

1 to 1500mm/h (Default chart speed - 25mm/h)

Periodic Data Printing

Digital printing of time, channel numbers and measured values on trace printing.

Digital Data Printing

Programming range of interval (hours, minute) depends on chart speed.
 Digital printing of time and measured values by interrupting trace printing on demand.

Alarm Printing

Alarm-on	Time, channel number, alarm type and alarm number in right side of chart
Alarm-reset	Time, channel number and alarm number in right side of chart
Memory Capacity	Maximum 48 data

Programming Change Mark Mark in right side of chart whenever programming changes.

List Printing

Printing of year, month, day parameters of each channel and other parameters.

Subtract Printing

Printing of difference of measured values of one channel and another channel (or reference value)

Fixed-time Printing

Printing of month, day, time, time line, ranges (scales), tags and engineering units every fixed-time (interlocking to chart speed)

Skip Function

No display or printings of channels.

Display Items

Multi-point simultaneous display (LCD): Simultaneous display of 6 or 12-channel measured values, or time (year/month/day/hour/minute). alarm-on channels and chart speed.

Status Display

Multi-point simultaneous display: Printing status and key lock

Alarm Display

Multi-point simultaneous display: "ALARM" illumination and flashing alarm-on channels

Alarm Type

Absolute value alarm, Differential alarm, change-of-ratio alarm

Alarm Programming

Individual programming each channel, Maximum 4 levels/channel

Alarm Printing

Alarm-on....Time, channel number, alarm type and alarm point number in right side of chart

Alarm Deadband

0.1 to 9.9% of scale programming range (Default: 0.1%)

Rated Power Voltage

100 to 240VAC 50/60Hz

Power Consumption

Maximum 45VA

Ambient temperature/humidity range: 21 to 25C / 45 to 65% RH
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Environmental Conditions	Reference Operating Condition	Power voltage: 100VAC +-1% Power frequency: 50/60Hz +-0.5% Attitude: Left/right 0, Forward tilting 0, Backward tilting 0 Warm-up time: More than 30 minutes
	Normal Operating Condition	Ambient temperature/humidity range: 0 to 40C / 20 to 80% RH Power voltage: 90 to 264VAC Attitude: Left/right 0 to 10, Forward tilting 0, Backward tilting 0 to 30

Power Failure Protection Programmed parameters stored into EEPROM memory Clock circuit sustained for minimum 10 years by a lithium battery (At the operation more than 8 hours/day)

Mounting Panel mounting
Weight About 8.5Kg (full options)

Standards	CE-marking	EN55011 Group 1 Class A, EN50082-2, EN61010-1 + A2
	UL	UL3111-1 (Approval pending)
	CSA	C22.2, No.1010 (Approval pending)
	IP	IEC529 IP54 (Front part)