

EH SERIES ELECTRONIC RECORDER



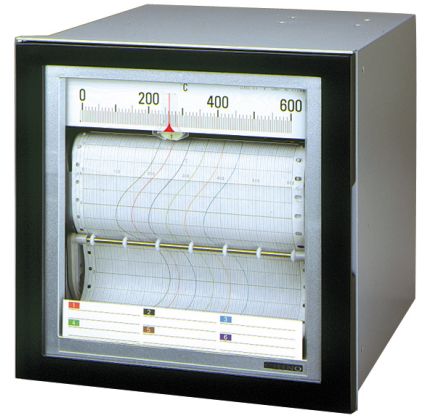
MODEL EH□00-□□ (Recorder)

The EH series is supplied with either continuous writing or multipoint dotting systems.

This versatile series of electronic selfbalancing strip chart recorders features a 180mm chart.

Models are available to recorders various industrial variables such as temperature, mV or DC voltage at 1, 2, 3, 4, 6, 12 points.

Select mV, thermocouple or resistance thermometer type measuring systems.



MODEL EH100-06

MODELS

EH□00-□□

NO. OF MEASURING POINT

INPUT

- 01 : 1 pen continuous writing
- 01D: 1 point dotting
- 02 : 2 point dotting
- 03 : 3 point dotting
- 04 : 4 point dotting
- 06 : 6 point dotting
- 12 : 12 point dotting

- 8 : DC voltage
- 1 : Thermocouple
- 2 : Resistance

FEATURES

● Wide selection

The EH series instruments are widely adoptable to various needs by combining various options, such as 1-pen, 1 to 12 point recording types, mV, thermocouple and resistance thermometer input signals.

● Accuracy $\pm 0.25\%$ as industrial recorders

The high-reliability design has realized the highest indicating accuracy of $\pm 0.25\%$ of input span (DC voltage input) as industrial recorders.

● Highly reliable instruments

Highly reliable instruments have been established by searching for the durability and high reliability of parts and circuits, such as balancing slide resistors using conductive plastic, input selectors using a reed switch, servoamplifier with an overshoot preventive circuit and others.

● Clear recording with critical damping

Sensitive recording with a differential antecedent velocity type damping circuit servoamplifier, dot recording by a precision forming dotter and continuous recording with an ink pen and a cartridge pen (option) ensure clear recording on all phenomena.

● Conformance to international standards

These instruments are international products conforming to DIN standards of 288mm x 288mm and ANSI standards as performance specifications.

● Units structure with easy maintenance and check

The range unit, servoamplifier, chart forwarding mechanism and other key components are designed as modular units for easy maintenance and checking.

■ GENERAL SPECIFICATIONS

CASING :	Front door..... Diecast aluminum
	Rear case..... Steel plate
COATING :	Door..... Munsell N1.5 (black)
	Case.....Metallic silver
MOUNTING :	Flush panelmount
WEIGHT :	About 13.5kg

INPUT SIGNAL :	mV..... 3mVto 500mVDC span
	1mV to 3mVDC span*
	500mV to 100VDC span*
	Thermocouple..... K, E, J, T..... 100°C span or more
	R.....450°C span or more
	B.....1000°C span or more
	S.....500°C span or more
	Resistance thermometer.....30°C span (Pt 100) or more

SCALE LENGTH :	180mm
INDICATING ACCURACY :	mV input..... $\pm 0.25\%$ of input span
	Thermocouple, resistance thermometer..... $\pm 0.5\%$ of input span
DEAD BAND :	0.1% of input span
BALANCING SPEED :	About 2.0 sec.(50Hz) or about 1.6 sec.(60Hz) for traveling F.S.
CHART:	Fanfold chart
	Effective recording width 180mm (Total width 200mm)
	Total length 20m (A 30m chart is also available)
RECORDING POINTS :	1, 2, 3, 4, 6 or 12points
RECORDING SYSTEM :	Pen-writing type..... One-point continuous recording
	Dotting type..... 2, 3, 4, 6, or 12 points ; ink pad dotting using a different color at each point
	Dotting colors
	1 point..... Red
	2 points..... 1 Red, 2 Black
	3 points..... 1 Red, 2 Black, 3 Sky blue
	4 points..... 1 Red, 2 Black, 3 Sky blue, 4 Green
	6 points..... 1 Red, 2 Black, 3 Sky blue, 4 Green, 5 Brown, 6 Purple
	12 points..... 1 Red, 2 Black, 3 Sky blue, 4 Green, 5 Brown, 6 Purple, 7 Orange, 8 Gray, 9 Blue, 10 Greenish brown, 11 Scarlet, 12 Violet
CHART SPEED :	12.5, 25, 50, 100mm/h and FAST
DOTTING INTERVAL :	6 sec.(50Hz) or 5 sec.(60Hz)

POWER SUPPLY:	100, 110, 120, 130, 200, 220, 230, 240VAC, 50Hz or 60Hz
ALLOWABLE VOLTAGE FLUCTUATION :	10% to (-)10% of rated value
AMBIENT TEMPERATURE :	(-)10°C to 50°C
AMBIENT HUMIDITY :	30 to 90%RH
EXTERNAL RESISTANCE (Potentiometer type only) :	Connectable up to about 10k Ω
INPUT IMPEDANCE (Potentiometer type only) :	About 100k Ω
INSULATION RESISTANCE :	500VDC, 20M Ω or more between measuring terminals and ground terminal
	1000VDC, 20M Ω or more between power terminals and ground terminal
	1000VAC, 20M Ω or more between measuring terminals and power terminals
WITHSTAND VOLTAGE :	500VAC, 1 min. between measuring terminals and ground terminal
	1000VAC (100V power system), 1 min. between power terminals and ground terminal
	1500VAC (200V power system), 1 min. between power terminals and ground terminal
	1000VAC (100V power system), 1 min. between measuring terminals and power terminals
	1500VAC (200V power system), 1 min. between measuring terminals and power terminals
ILLUMINATION :	Fluorescent lamp
POWER CONSUMPTION :	About 24 VA

■ STANDARD SCALE

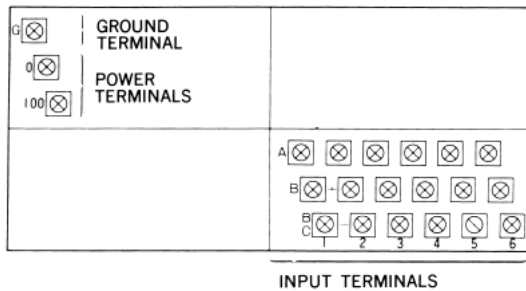
Input	Scale (°C)
R	0 to 1600 (20) 0 to 1400 (10,20) 0 to 1200 (10,20) 800 to 1600 (10) 400 to 1600 (10) 700 to 1400 (5,10)
B	0 to 1800 (20)
K	0 to 1200 (10) 0 to 1000 (10) 0 to 800 (10) 0 to 600 (5) 0 to 500 (5) 0 to 400 (5) 0 to 300 (2,5) 0 to 200 (2) 0 to 150 (1,2) 600 to 1200 (5,10) 100 to 250 (1,2) (-) 100 to 200 (2,5)
T	0 to 300 (2,5) 0 to 200 (2) 0 to 150 (1,2) 0 to 100 (1) (-) 50 to 200 (2) (-) 50 to 150(2) (-) 50 to 100 (1,2) (-) 50 to 50 (1) (-) 100 to 200 (2)
E	0 to 300 (2,5) 0 to 200 (2) 0 to 150 (1,2) (-) 50 to 150 (2)
J	0 to 600 (5) 0 to 400 (5) 0 to 300 (2,5) 0 to 200 (2)

Input	Scale (°C)
Pt	0 to 500 (5) 0 to 40 (5) 0 to 300 (2,5) 0 to 250 (2) 0 to 200 (2) 0 to 150 (1,2) 0 to 100 (1) 0 to 50 (0.5) 100 to 250 (1) 50 to 100 (0.5) (-) 20 to 80 (1) (-) 40 to 80 (1) (-) 50 to 150 (2) (-) 50 to 100 (2) (-) 100 to 50 (1)
mV	0 to 1 (V) (0.01) 0 to 100 (1) 0 to 10 (0.1) 0 to 5 (0.05) 1 to 5 (V) (0.05) (-) 5 to 5 (0.1)
Linear	0 to 100 (1)

() shows 1 graduation.

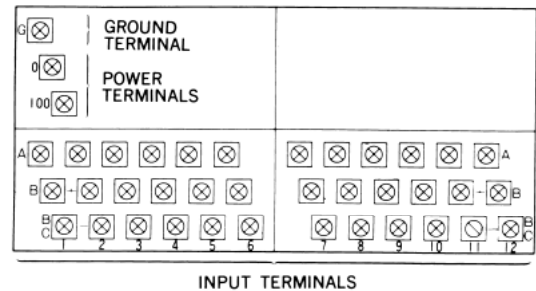
■ TERMINAL BORD

● 6-POINT RECORDER



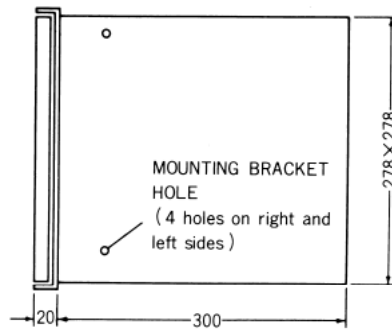
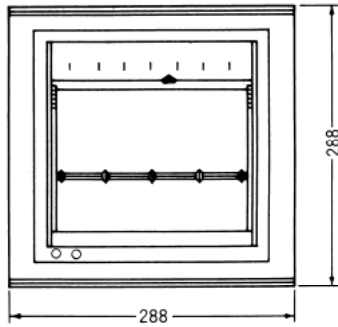
Thermocouple, mV input (+)(-) terminals
Resistance thermometer input (A)(B)(C) terminals

● 12-POINT RECORDER

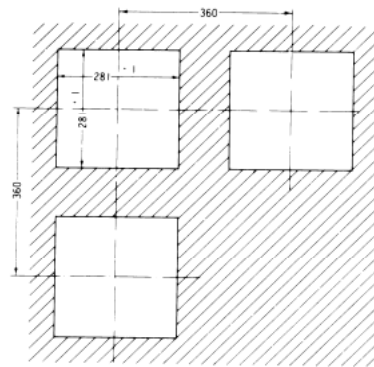


Thermocouple, mV input (+)(-) terminals
Resistance thermometer input (A)(B)(C) terminals

■ EXTENAL DIMENSIONES



PANEL CUTOUT



Unit : mm

Specifications subject to change without notice. Printed in Japan (I) 2008. 7. Recycled Paper

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