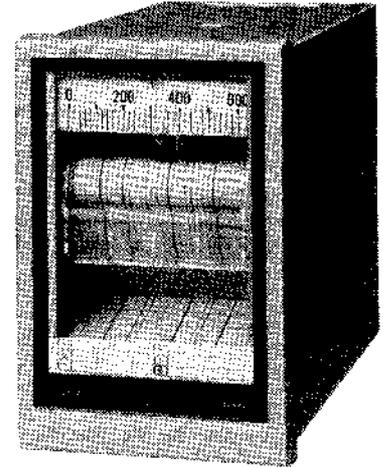


ELECTRONIC MINI-RECORDER

CHINO **PS**
PERFORMANCE SPECIFICATION

MODEL ES6□□

The ES600 is a compact industrial analog recorder using 60-mm wide chart paper. Even with its compact size of 96 × 144 mm, it has functions comparable with a large-size recorder including a highly reliable automatic parallel system, easy-to-install fanfold recording chart paper, etc. There are two recording systems, pen type recorders have one-point continuous recording and dot printing type recorders are available which record a maximum of six points. Thermocouples, DC voltages/currents, resistance thermometers are available which enable the recording of temperatures, various industrial units, signal voltages and currents.



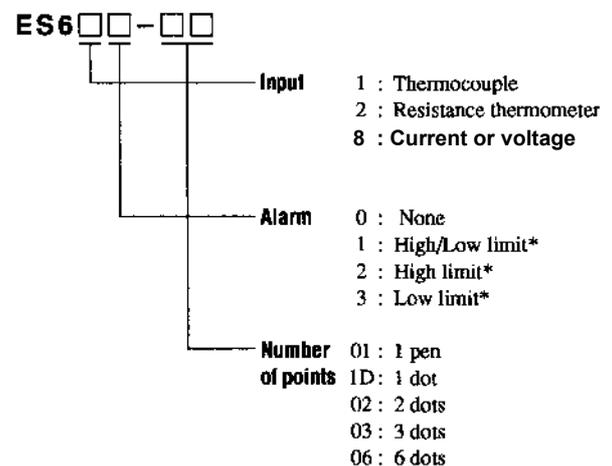
MODEL ES600

■ GENERAL SPECIFICATIONS

Input signal	: mV: More than 10 mV DC span, less than 50 V span Thermocouple: K, T More than 250°C span E, J More than 200°C span R More than 1000°C span Resistance thermometer: (Pt100, JPT100) More than 50°C span
Scale width	: 60 mm
Indicating accuracy	: ±1.0% of input span
Dead band	: 0.4% of input span
Balancing speed	: Approx. 2.0 sec (50 Hz), 1.6 sec (60 Hz) for full-scale movement
Chart paper	: Fanfold type, effective width 60 mm, total width 73 mm, total length 10 m
Recording points	: Pen type; 1 pen Dot printing type; 4 types with 1, 2, 3 and 6 points
Recording system	: Pen type: Cartridge pen continuous recording (color: red) Dot printing type: Ink pad dot printing with each point in a different color Dot printing color: 1 point: red 2 point: 1 red, 2 blue 3 points: 1 red, 2 blue, 3 green 6 points: 1 red, 2 blue, 3 green, 4 violet, 5 purple, 6 brown
Chart speed	: 10, 20 mm/h and fast feed
Dot printing interval	: Approx. 10 sec
Pen lift (Pen-writing type)	: Manual
Power supply	: 100, 110, 120, 130, 200, 220 230, or 240 V AC, 50/60 Hz
Allowable voltage fluctuations	: +10% to -10% of rated value
Ambient temperature	: -10°C to 50°C
Ambient humidity	: 30 to 90% RH
Allowable signal source resistance	: mV input, thermocouple input: 1 KΩ or less Resistance thermometer input: less than 10 Ω per wire
Input resistance	: Approx. 8 MΩ
Max. common mode voltage	: 200 V AC
Common mode rejection ratio	: 100 dB or more

Series mode rejection ratio	: 50 dB or more
Insulation resistance	: Between measuring terminals and ground terminal: 500 V DC, 20 MΩ or more Between power terminals and ground terminal: 500 V DC, 20 MΩ or more Between measuring terminals and power terminals: 500 V DC, 20 MΩ or more
Withstand voltage	: Between measuring terminals and ground terminal: 500 V AC for 1 minute Between power terminals and ground terminal: 1000 V AC for 1 minute Between measuring terminals and power terminals: 1000 V AC for 1 minute
Power consumption	: Approx. 7 VA
Casing	: Front door: ABS plastic Flange and rear case: ABS plastic
Color	: Gray
Mounting	: Panel mounting
Weight	: Approx. 1.7 kg

■ MODELS



Functions marked * are optional.

STANDARD SCALE

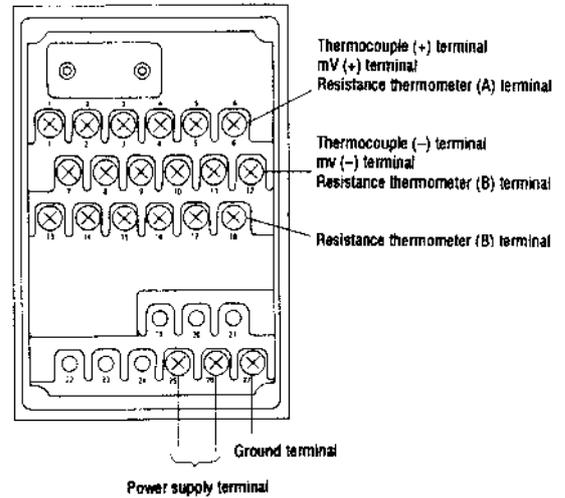
Input	Standard scale			
Thermocouple	R	0 to 1400 (50)	0 to 1600 (50)	
	K	0 to 250 (5)	0 to 300 (10)	0 to 600 (20)
		0 to 800 (20)	0 to 1200 (20)	
	E	0 to 200 (5)	0 to 300 (10)	
	J	0 to 300 (10)	0 to 400 (10)	
T	0 to 250 (5)	0 to 300 (10)		
mV	0 to 10 (0.2)	0 to 20 (0.5)	0 to 100 (2)	
	-5 to 5 (0.2)	-10 to 10 (0.5)	-50 to 50 (2)	
	0 to 1V (0.02V)	-1 to 1 V (0.05V)		
mA	4 to 20mA (0.5mA)			
Resistance thermometer	0 to 50 (1)	0 to 100 (2)	0 to 150 (5)	
	0 to 200 (5)	0 to 300 (10)	-20 to 30 (1)	
	-20 to 80 (2)	-30 to 70 (2)	-50 to 50 (2)	
	JPt100	-50 to 100 (5)	-100 to 50 (2)	

Unit is °C. mV is used only for mV inputs. () shows 1 graduation.

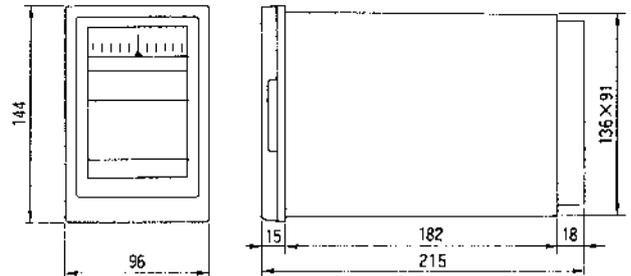
OPTIONS

Option name	Contents
Chart speed	Variable between 5 mm/h to 400 mm/h
Dot Interval	Approx. 5 sec.
Alarms	Alarm system: High limit (Low limit) type or High/Low limit type Setting accuracy: ±1% of input span Deadband: 0.6% of input span Contact capacity: Resistance load 100V 0.5 A, 200 V 0.2 A Alarm signal: On-off make-contact signal
Double scale	① Manual switching to double scale ② Double scale classified by positions
Burnout	In case input is interrupted, indicated value will be beyond high limit (or low limit)
Portable type	With handle and feet

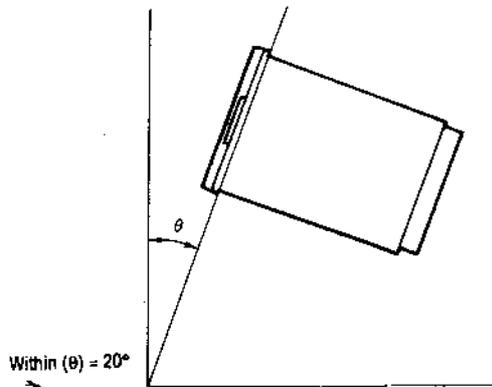
TERMINAL BOARD



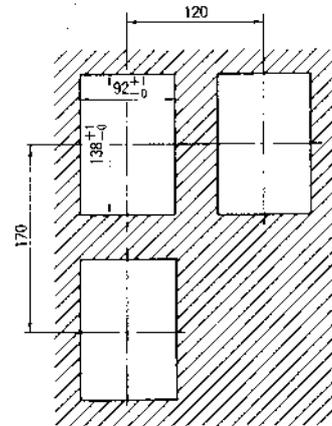
EXTERNAL DIMENSIONS



INCLINED MOUNTING



Panel cutout and mounting interval



Unit: mm

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