ELECTRONIC MINI-RECORDER



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 largesize 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 and thermistors measuring inputs are available which enable the recording of temperatures, various industrial units, signal voltages and currents.

■ 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 More than 1000°C span

Resistance thermometer: (Pt100, JPT100)

More than 50°C span

Thermistor:

More than 50°C span

(at room temperature)

Scale width 60 mm Indicating accuracy

: ±1.0% of input span Dead hand

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

: +10% to -10% of rated value

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 Pen lift

: Approx. 10 sec Manual

(Pen-writing type)

Power supply : 100, 110, 120, 130, 200, 220 230,

or 240 V AC, 50/60 Hz

Allowable voltage fluctuations Ambient temperature

-10°C to 50°C

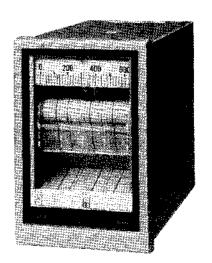
Ambient humidity Allowable signal source resistance

30 to 90% RH : mV input, thermocouple input: 1 $K\Omega$ or less Resistance thermometer input: less than

 10Ω per wire Input resistance : Approx. 8 MQ : 200 V AC

Max. common mode voltage

Common mode : 100 dB or more rejection ratio



MODEL ES600

Series mode rejection : 50 dB or more

ratio

Insulation resistance

Withstand voltage

: Between measuring terminals and ground

terminal: 500 V DC, 20 M Ω or more Between power terminals and ground terminal: 500 V DC, 20 M Ω or more Between measuring terminals and power

terminals: 500 V DC, 20 M Ω or more

: 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

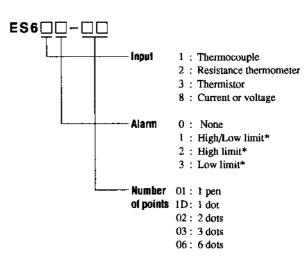
Casing : Front door: ABS plastic

Flange and rear case: ABS plastic Color : Grav

Mounting : Panel mounting

Weight : Approx. 1.7 kg

■ MODELS



Functions marked * are optional.



STANDARD SCALE

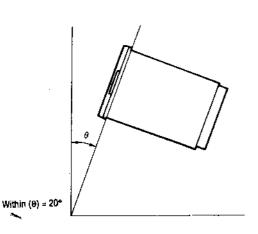
Input		Slandard scale		
	R	0 ю 1400 (50)	0 to 1600 (50)	
Thermocoupte	ĸ	0 to 250 (5) 0 to 800 (20)	0 to 300 (10) 0 to 1200 (20)	0 to 600 (20)
	E	0 to 200 (5)	0 to 300 (10)	
₽	J	0 to 300 (10)	0 to 400 (10)	
	Ť	0 to 250 (5)	0 to 300 (10)	
₩		0 to 10 (0.2) -5 to 5 (0.2) 0 to 1V (0.02V)	0 to 20 (0.5) +10 to 10 (0.5) -1 to 1 V (0.05V)	0 to 100 (2) -50 to 50 (2)
mA		4 to 20mA (0.5mA)	
Resistance thermometer P1100 JPt100		0 to 50 (1) 0 to 200 (5) -20 to 80 (2) -50 to 100 (5)	0 to 100 (2) 0 to 300 (10) -30 to 70 (2) -100 to 50 (2)	0 to 150 (5) -20 to 30 (1) -50 to 50 (2)
Thermistor		0 to 100 (5)	0 to 200 (5)	

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

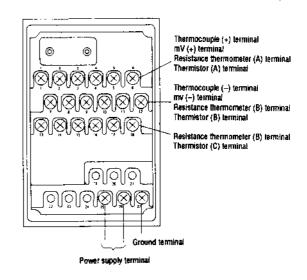
■ OPTIONS

Option name	Contents		
Charl 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	Manual switching to double scale Double scale classified by positions		
Burnout	In case input is interrupted, indicated value will be beyond high limit (or low limit)		
Portable typs	With handle and feet		

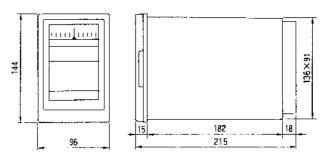
■ INCLINED MOUNTING



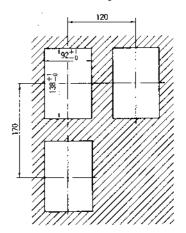
■ TERMINAL BOARD



EXTERNAL DIMENSIONS



Panel cutout and mounting interval



Unit: mm

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