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 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 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 R 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 : 60mm

Indicating accuracy: ±1.0% of input span Dead band

0.4% of input span

Approx. 2.0 sec (50 Hz), 1.6 sec (60 Hz) Balancing speed

for full-scale movement

: Fanfold type, effective width 60mm, Chad paper

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 points: 1

3 points:

1 red, 2 blue 1 red, 2 blue, 3 green 1 red, 2 blue, 3 green, 4 violet, 6 points:

5 purple, 6 brown

Chart speed : 10, 20 mm/b ar Dot printing interval Approx. 10 sec 10, 20 mm/b and fast feed

Pen lift : Manual

(Pen-writing type)

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

or 240 V AC, 50/60 Hz

Allowable voltage : +10% to -10% of rated value

fluctuations

Ambient temperature: -10°C to 50°C Ambient humidity 30 to 90% RH

Allowable signal : mV input, thermocouple input: $1K\Omega$ or less Resistance thermometer input: less than source resistance

 10Ω per wire

input resistance : Approx. 8 MΩ

Max. common mode : 200 V AC

voltage

Common mode : 100 db or more

rejection radio



MODEL ES600

Series mode rejection: 50 dB or more

ratio

Insulation resistance: Between measuring terminals and ground

terminal: 500 VDC, 20 M Ω or more Between power terminals and gmund terminal: 500 VDC, 20 $M\Omega$ or more Between measuring tenninals and power tenninals: 500 VDC, 20 M Ω or more

Withstand voltage

: Between measuring termInals and ground terminal: 500 VAC for 1 minute Between power terminals and ground tenninal:1000 VAC for 1 minute Between measuring terminals and power

terminals: 1000 VAC for 1 minute

Power consumption Approx. 7 VA

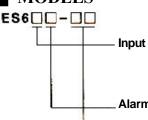
: Front door: ABS plastic Casing

Flange and rear case: ABS plastic

Color

Mounting : Panel mounting Weight : Approx.1.7kg

MODELS



1: Thermocouple

2 : Resistance thermometer 3: Thermistor

8: Current or voltage

Alarm 0 : None

1: High/Low limit* 2 : High limit* 3: L.ow limit*

Number 01: 1 pen of points 1D: 1dot 02: 2dots

03:3dots 06: 6dots

Functions mared* are optional.



■ STANDARD SCALE

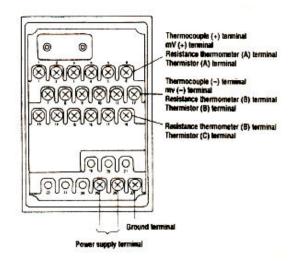
Input		Standard scale		
	R	0 to 1400(50)	0 to 1600(50)	
Эe	K	0 to 250(5)	0 to 300 (l0)	0 to 600 (20)
l m		0 to 800(20)	0 to 1200(20)	
Thermocouple	Е	0 to 200(5)	0 to 300 (W)	
ldn	J	0 to 300(10)	0 to 400(10)	
Ф	10 to 1	250(5) 0 to	300(10)	
MV		0 to 10 (0.2)	0 to 20(0.5)	0 to 100(2)
		-5 to 5 (0.2)	-10 to 10 (0.5)	50 to 50 (2)
		0 to 1V (0.02V)	-1 to 1 V (0.05V) ` ` `
mA		4 to 20mA (0.5	mA)	
Resistance		0 to 50(1)	0 to 100(2)	0 to 150(5)
thermometer		0 to 200 (5)	0 to 300(10)	-20 to 30(1)
Pt100		-20 to 80(2)	-30 to 70(2)	-50 to 50(2)
JPt100		-50 to 100(5)	-100 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.

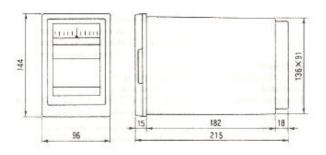
OPTIONS

Option name	Contents		
Chart speed	Variable between 5 mtMi to 400 mm,ft		
Dot interval	Approx. 5 sec.		
Alarm	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 05A, 200V 02A Alarm signal: On-off make-contact signal		
Double scale	le 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

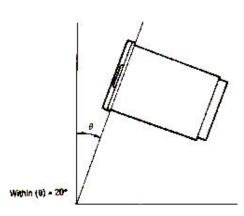


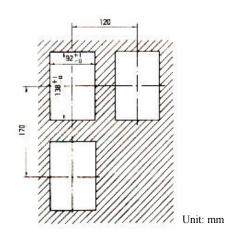
■ EXTERNAL DIMENSIONS



Panel cutout and mounting interval

■ INCLINED MOUNTING





Specifications subject to change without notice. Original 2000.12

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